•	TTTTTTTTT TCTACCCACA GCCTATTCCA CTCCTCCCCA TCTCCAGGCG	150
	CTGGGAGGGG GGCCCTCACC CCGTCACGCC TCGCTCCTC CTGGCCCTCT	200
5	GGTCCAGCCC CTTACGCCTC CTCTCAGTCT ACTCAATTGT GACTGTCCCT	250
	CCTGATGTAT TTTTTTTCC TCCAACTCAA AAGGCAAAAA TAATCCTATT	300
10	TTTATTATCT TGCTACAACT GCAACTTTCT GCCCTATAAA TTTACATTCC	350
10	(2) INFORMATION FOR SEQ ID :986:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 289 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	·	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :986:	
	AGCGACCGCC ACTCACTGTG AGTTCCACTT AATTCAGGTG AGCCGCTCTT	50
25	CTGCACCTCC TCCTCACACC TCTCTACCTA TACTAACCAT TTTTGAAGGT	100
	TCAACAATGC TCTGCAAATC TTTTTAAGAC CCGTTACTTC AACAACTCCC	150
	AATACCTTCC TCCTCAACGG AACAACTTAA CCGTTACCTT TTAAACCCGA	200
30		
	CGAGCTACAA AGCAAGAGAT ACTTCGCGAG CCAAATTCTA CAAAGGACCA	250
	AAAAAGAAAC CCATTACCTT ATAGTACTCA TGCAAAAAA	289
35	(2) INFORMATION FOR SEQ ID :987:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 134 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :987:	
_	CACAATCATA GCATTTATTA CACGATTTAC ATCTGATCCT CACGCAATTT	50
5	TCTTCCTCAC CAATAAAGAA CTAATAGGAC AGCATATTAG AAGCAACATA	100
	CATTCTTTTA TTCTTGCATC GCTATAAAGA AGTA	134
10	(2) INFORMATION FOR SEQ ID :988:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :988:	
	TTCTGAAATG AAGGTTTCGT CTTTAGCTAT TGACTGTAGG ATTTGTAATT	50
25	CARATCATCA CAGCATCCTA AAGAAATACT GTGTGAATGG AATGCACACA	100
23	ATTCCTACAG AACACACAAA CTGATGTCCA AAAGGCACAG AGTAATGCTG	150
	GTGGCTCTTT CTAGTCAGTT AAGAAACAAT AAAAAGTCTG CATTATTCTT	200
30	TCATAATTTA AATACTTAAG TAATCTCCAC TTTATTATTT TATAACAATG	250
	ACTTCAAATT TACATTATTT TAAGTACCAT TGTAATC	287
35	(2) INFORMATION FOR SEQ ID :989:	
J.J	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

501

	(xi) SEQUENCE DESCRIPTION: SEQ ID :989:	
	AGCAACCAAC ACTCACTGGA ATCCCGCAAT CAAGAGCTAA AAGGACTTCT	50
5	TCCATCTCTC AGGGACACAC ATCCACCGAT AAGAATAAAA GAAATGCCTG	100
	AATGACTCTC ACTGGCACTT TTAAACACAG CAAGCCCAAC ATATTTTCTC	150
	CTTTTCATAA AGAAGCCTAT ACACCAT	177
10	(2) INFORMATION FOR SEQ ID :990:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 158 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :990:	
	TTCCTATACT ATGTCGGTTA AAAGCCTTCA TAGAATATAG GCACCAAAAA	50
25	TARACTARCO CORCACOCTO ACCARCORAR GGREGORACA TOCARCORAR	100
•	CTGATGAAAA GTCGAGGTAA CGACTCTGCA GACCGTACTC ATTTCTAAAC	150
30	CAAAAGTC	158
	(2) INFORMATION FOR SEQ ID :991:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		

(xi) SEQUENCE DESCRIPTION: SEQ ID :991:

PCT/GB93/01467

•	TAATCCCTTT TAAGCAGAGA TACACATTCA CAGAGAGAGA ATGTTTTAAA	50
	AAGACCCACA AGGGGAAGGG ACCAAGTAAG CACTTTTAAT TCATTTTGAT	100
5	TACACAAAAA TAAGGCAAAC TAAATGATTC AGAACAATTC AATTTAACTG	150
	AAGCCTTCTA GAAAAATACT CAACAGGCTT CAACAAAAAG ACTTAGCGCA	200
10	CATAAAACAA TCACGAAGAT CACAATTTCA GCACAAATAT CTGAAGGAAT	250
10	ACACGCAAAA CATCATA	267
	(2) INFORMATION FOR SEQ ID :992:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 199 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :992:	
25	AGGATGTGTT CATGCTGGCT TTCAGGATGT CCCAAGGCAC GGCACAGTGA	50
	TTGTCAAATT CCACTTTGCA TGGAAGACAG CACAGAACCC TGCTCTGCGT	100
30	CAGCTGGAGA GCTCCGGCCA GCACGGCCAC CAGCAGCATG ATCAGTGTGA	150
	TGCAATACCA GAAGCCGTCC CACCATGATT TTAAGATGTG ATAAGATGA	199
	(2) INFORMATION FOR SEQ ID :993:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 198 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		

PCT/GB93/01467

503

WO 94/01548

	(xi) SEQUENCE DESCRIPTION: SEQ ID :993:	
.4	TTTAAGGTGC TAAACTTGCA CCTCATGTCC ACTCAGTAAC AAGTATTGGG	50
5	ACGTAGAGCA CAGCCTCACT CAGCTCTGAA AGGTAATACA GCTTGCGAGG	100
	AAGTGAGCCA GCAGTGGCCT TTGCAATTGT GGATCTTGAG CTTTGCTCTT	150
	AGCAGATCTC AGGCGTAACC ATTCGCTAAC TGTACTGAAG ATGCGTCC	198
10	(2) INFORMATION FOR SEQ ID :994:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :994:	
	GCTATCTGCG GGGCCATTCG TAGGATGGGT GAGTCAGATG ATTCCATTCT	50
25	CCGATTGACC AAGGCCGATG GCATCGTCTC AAAGAACTTT TGACTGGAGA	100
	GAATAACAGA CGTGGAATAT TTGTCATAAA TAAATAACGA AAACCTAAAA	150
20	AAAAAAAAA ACAACAAACC CCAACAAACT CAA	183
30	(2) INFORMATION FOR SEQ ID :995:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :995:	
	fort andition and account trails and to sales	

504

	ACCTCTGCAT TAACACTCCA GCACCTTTGG TTAGCCAATT TGGCCTTATT	50
	TGTGTCTCCA CCATTGGATT ATCTGTCCAT CAAGGTCAGG AATGTTTTCG	100
5	GGTTACCCCA CTGTCCCCAA CTTCGAATAT GCTCACTGCC TGGAAAATGT	150
	TTATCTGAAT ATAAGGCATC AAGCCAGAAC TTGCCCAAAA CTAAATCTA	199
	(2) INFORMATION FOR SEQ ID :996:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
1.5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(b) Torobosi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :996:	
20	(**) 552051105 5550111 5550 5550	
	GGTCTTGGCT GGTGGTTTAT GGCCCGGGCC TTCTTTCTAC GGGGGCCAGG	50
	GTCCAATTTT CCACCTGGGG TTTAAAAGTT AAGGAGGACC AGCCTGGGAA	100
25	CCCCTCGAGT GGGGACGCCA TTTCTATTAC CAGGGCCCCC TTATATTTTA	150
	AGGGGACACC ATATGGAGAT TTTATGC	177
30	(2) INFORMATION FOR SEQ ID :997:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :997:	
40	•	

GAGTTTCCTG TGCTGTTACA AATGTAACAT TCTCATATAC AACATTCATT

505

	GAAGAGGCAC AATTCTTATT TTGAGGTGGC ACAGATTAGA CAAATTTTTC	100
	AGTGAATAAT TCCTCTTTCA TTAGGAAATT TAACCACAAG CTGTATTTTC	150
5	GTAGAAAGTT GCTTGAAATT CTTTTCCTAA AAAAATTTAA TTTTTCTATC	200
	TCAAAATGAC CGTATGCAAA CGAACATTA	229
	(2) INFORMATION FOR SEQ ID :998:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 233 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :998:	50
	TTGCAGTGTT TATGCCCGCC TTCTTTCACG GGCAGGTTCA ATTTCACTGG	30
	TTTAAAAGTA AGAGACAGGC TGAACCCTTC GTGGAGCCAT TTCATTACAG	100
25	GTCCCTTAAT TTAAGGAACA AGTTGATTTA TGCTACCTTT TTGCACGGTT	150
	TAGGGTACCG CGGCCGTTAA ACATGTGTTC ACTGGGCCAG GCGGTGCCTC	200
30	TTAATATCCG GGGATGTCCA GAAGGGGAGT TTT	233
-	(2) INFORMATION FOR SEQ ID :999:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :999:

506

	TCAAAAACTC AATATAATAT GTAAATCAGG GGTGTCCAAT CTTTTGGCTT	50
	CCCTAGGCCA TACTGGTGTT AGGCCACATT CAAAGCTATC CTAGGCCACA	100
5	TGTGGCTGGT GGGCCATGGG TTGGACAAGC TTGATGTAAA TAAAACCACC	150
	AGTGGAAAGA GTTTGTTGTG AGTTACATTC AAATACAACA GGAGTAATAC	200
10	TATCATGATA TTAGTT	216
10	(2) INFORMATION FOR SEQ ID :1000:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	·
	\cdot	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1000:	
	GACAAGACCT AGAAGCAACA ATGCCCAGTA GAAACAAACA CACCTACTGC	50
25	CTGGATCTTA GTTTTTAATT ATATTCCCCA ATAAAGAGAC CCAGGGCTCC	100
	TTGTTGAAAT GGCTGATTCT AGGACTGGGG CAGGAAATAT GCAAGATGAA	150
30	CCTAGAATAT CTAATACTGC CAAAAATTAA GAAAGTGTTC TAAAAAAAAT	200
- _	CCCCACGGAT AGGGTGTCAA AAGAGACATA GAAGCCATCT GAAGGAGTTC	250
	CCAATGGCCA AAGATCAAAT AATTTTTCAA	280
35	(2) INFORMATION FOR SEQ ID :1001:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 324 base pairs	
	(B) TYPE: nucleic acid	
	/-/ 	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

507

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1001:	
5	TGCATGATAG GAGCGTCCTT TGTTCTCATG AGGTGACTCT TGGTGGGCTC	50
5	CTTATTTGGG GACTGGTCAC CAAAAATACC TAACTATGGT TGGAAGCTTA	100
	GTGCTTTCAG CCCCATTCCC CATCCTCTGG AAAGGGGAGC AGAGCTGGAG	150
10	CTCGATCATG CCTGCGTGAC AAAGCCTCCA GAAAAATCCT TGAAAGACAG	200
	GACATGGAGA GGCTGCTGGG TTGGCGAACA CAGCCATGTG CCGGGAGGAT	250
15	GGTGCACCCC AACTCCACAA GGACCCTTCC AGACCTCACC TGTGTATCTC	300
15	TTCATCTGGC TGTTCATTTG TATC	324
	(2) INFORMATION FOR SEQ ID :1002:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs	
	•	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1002:	
30	ATTTCCATTC ATAAGTCCTC ACAAACCCAC TTTTCCTCTT GCCTGAGTGC	50
	CTCACATACC CTACTGCCTG AGATGGTTCC AGAGGCGGTC TCCTCTCCC	100
35	CCCAACGAAA CACCAGGCAC ACACCTGCCC CCAGTCTTGC CTGCACTCTC	150
	CTTTCCTCCC GCAGAGAGGC ATTCCTTTCT CCTCCTCTCA TCCTACACAC	200
	ACTATAAGAG ACAACTGAAA TCTTGCCTCC TCCAGCAAGC TTCTTAATTC	250
40	ATTT	254

(2) INFORMATION FOR SEQ ID :1003:

508

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 265 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		r
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1003:	
10	(XI) SEQUENCE DESCRIPTION. SEQ ID .1005.	
	AAGGTTGCGC TGCCCATCCT CTCGCCCTTC GGAATTTACC CCTGGCCGCT	50
	CAGGGTCTCG CTTCTAGAAG AAGATGATGG ATACTAGGGC GATCCTCCTA	100
15	TTGCCTTTAT ATTTAACAGG CCCGCCGAGG AGGGGCTCCC GCTGGTGCCC	150
	ACATAACTCT ATTAGACCAT CTGAGGCGAC TTCCCCCACC CCCTCCAACG	200
	CGCCTCACGC ACGACTCTAG CAAAAGACAG GTTCCGCGGT GGTCACGTCG	250
20		200
	TTTGAGACTA TACTG	265
	•	
	(2) INFORMATION FOR SEQ ID :1004:	
25	(i) CROUDING GUIDI CORRECTOR	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1004:	
35	AAATATGCCC TGAGGATTAT CTGATGTCGA TGGTGTGGAA AAGAACTCCA	50
		30
	GCAGGCGACT TOGUATTOAA TOAATGTCCC CTGAATGCCA CAGAACCACT	100
	AGCAGACGCT GCTCTCAG TCTTAATGGA GTGGCCTTCT GGGAACAGCC	150
40		
	GAGCTTTGAA AGATGCATAT CAAATGAGTA CAGACACTTG TAGCATTTAA	200

509

•	TCAAAGAGCA CCTTGCTAAG AGGCAGCGAA TGCTGGCAGG TGATGGAATG	250
	CCCCAGGTGA CCA	263
. 5	(2) INFORMATION FOR SEQ ID :1005:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 317 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1005:	
	CGAGACTGCA GTACTTCTAG AAAGTTGTGA ACTTCTAAGA AAGAGCCAGG	50
20	CTTCCATCTC ACTATTCCTT GATCATTATC TCTGAAGTCC CTACCTGCAC	100
20	TTCCCTGATT GTCCTGTAGC AACACCAGCA TGGTGGGAAT TGCAGGCAAA	150
	GATTGTGAAA AATCCCTAAA GGGTCATTGC TCATGACGTT ATTTCGAATT	200
25	GTAAAATCGT GAGCCACTCA TATTCAAACT AAAAAAAGAA CAGAACTTTT	250
	ATTCACGTTG TGAAGCTTAC TCCCTCGCCA TTTTACGGAT CAATGTCAAA	300
30	CGCTTGCATT CATAAAG	317
	(2) INFORMATION FOR SEQ ID :1006:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1006:

40

510

	CGGAAGCATT ATCCTGTCAT CAGAAGATGG ACCTTTCCCT GGAATGCCTT	50
	TTCCCTATCA TGTCTGTGTG GTAAATACCT ATTCATCCTT AACAACCTAG	100
5	CTGAGGTCTT ACCTCATCAG GATTTGATCC CCCAAAAAGA TTTGTCCCTC	150
	TCTGAGCTAT CTTTATAACT AGTACATACT CCTACCAGCG GACTATGTTA	200
10	TAATAATGTG GCTATATGCC TGTGATCTCA GCGTGAGCTC TTTGAGGACA	250
10	GAGTCTTTGT CTAAATACTC AAAACCCTGT TTACCAT	287
	(2) INFORMATION FOR SEQ ID :1007:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1007:	
25	GGGCACCAAA ATACACATCA GAGGAGACTG GCTTCCATGA GACGCTTCGA	50
	CTGTCTCATC GGGGCACTTG TAATAAGCAT CTTGATGCCA CTGAATGCAA	100
30	TGCTGTATTC AAATAATAGC TTTCATCTTC ACTATAAAAC AATACAAACG	150
30	TARACTITGA AGCCCTTTGA AGGACCTARC CARACARCAC AAGGATGARA	200
	ATAGATCAGT ACAACTTTGA GACACATTAT TAGGTCAAAT CTGCAAAGCA	250
35	TATTCGGATT TTACCGTAAG GAA	273
	(2) INFORMATION FOR SEQ ID :1008:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

PCT/GB93/01467

511

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1008:	
	TAGAGTGGGG GGCCAAAACC TCTGCAGTCC CCGGCAGTGA GCTATGGACT	50
	TTCTTCCCCC TCACAAGGCT GGGGGCCTCC TGCTCTCGTC CCTGGCCCTC	100
10	CCTGCACAGG GCAAAGCCAG TCTGGGCTAT GGCACACAGA GTTCATGTTT	150
	GCGCCCTCTC CCTGCCCCTC ACCCCAGAGG GTGAGGAGGA ATGAGGGGCA	200
15	TTGATGGTTA GGCCGGTTGT TGCCTCGAAC AGCTGGAGGG AAGCTGCAGG	250
	GGTGATAAAA TCAAAGCGAT ATTGACACAC TACAAACATT ATAGAACCTG	300
20	CAAAAAA	308
20	(2) INFORMATION FOR SEQ ID :1009:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1009:	
	GAACCGCCTC TGTTTCCAGA GCAACTGGTC AAAACCTCTC CAAATACCGA	50
35	GCAGTTTTGA AAACTGGATT AGGAACCACT AATGAAAAAG AACAGACTCA	100
	GGGACAAGTG TTTGGCGGGA ATGTGTGAAG AGGTAACTAA TGAGTGTCAC	150
	TGAATCACAC TATTACACAG ATGAAACAAA GCCTTTA	18
40	(2) INFORMATION FOR SEQ ID :1010:	

(A) LENGTH: 175 base pairs

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
•		
	GPO TP .1010.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1010:	
10	AAGAAAAGA TATTAAGATG GGCAAGTCCT GGTGGCAAGA CAAGCAGATG	50
	AAGAAAAAA INIIAAAN OOMAAAA	
	ACATTACAGA CAATGGACAT CAAACTGCTG CCAAGCTAAT TTAGATTGTA	100
15	AAAACAGCTC CATAGTCAAT ACCCATGAGT GATCTTAAAT ACGCACAATT	150
	AAGCTACTTC TCCTTGATAT TACCT	175
	(2) INFORMATION FOR SEQ ID :1011:	
20	/:) CROUDINGE CUNDACTEDISTICS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1011:	
30	TARGET TO SEE TO	50
	TGAAAAATAT TTGGAACTCT TTAGTACAGA ACAGTTTCAA TATGAGTTAA	50
	GAATCATGCG ATGACTACCA AAAAGCTAAT GCGATCCCAG GCTGCGGTAA	100
	GAATOATOO III GAATAA AAAAAAAAAAAAAAAAAAAAAAAAAAAA	
35	CAGAAGCAGA GCAGCTCAGC TGGGGAACGT GATAGTGATA ACTACTTCGT	150
	ACTAGGTTAG ACTGTACCGA GAGACCTATG TTCAGTTCTG GGAGTGAAAG	200
		•
	TATTTTAT	208
40		
	(2) INFORMATION FOR SEQ ID :1012:	

(A) LENGTH: 184 base pairs

513

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1012:	
10		
	ATGATATCTA GACTACCAGT ATTTTTTGAA TGAGGCTTTC TTAGGAGTAT	50
	GTTGATGCAC TCTCATCCTT TCCTCCCGG ACTCCTACCA CAACCCTCTG	100
	GITGHIGGAC TOTCHICCTI TOUTCOODS ACTOURAGE CARCOLICIS	100
15	ACTGTGGAAT AGCATGGTTG TGTGTAAGGC TGGAGCACAG GCACAGTGAG	150
	ATGAGGATGA GGGATTGAGG GATGCTATAA GCCA	184
	(2) INFORMATION FOR SEQ ID :1013:	
20	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1013:	
30	(XI) SEQUENCE DESCRIPTION. SEQ ID .1015.	
,,	CTTTGACATT TGATCAGACC AAACAGTGCT GTTTCCCGGG GAGGAAACAC	50
	ATTITAATAA ACACATCATC CCGCAGGCTC CCACCTTTAC CTCATGTTTC	100
	·	
35	ATACCTTGTT TATCAAATGA GCGACTCAAA ATGATTAAAA ATAATGCTGT	150
	TCTTTAGTAG CAACTAAAAT GTGTCTTACC GTCATTTATA TCTTTGTCAC	200
	CGGAAAGAAG CATTTTTGAT ACTTTACTGC GAGTCAAAAA TCAATACGCA	250
40		
	GAATGGCATT TGA	263

	(2) INFORMATION FOR SEQ ID :1014:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1014:	
	CAAATTAAGT GCCAGAATGA TGCAGCCCGC TCTCACCAGG AAGAACGACA	50
15	TGTGAGAAAA CTTATAGCAG ATGCAAAAAT GTCAACCCAC CATGTTATTT	100
	AAAAAAAAT ATGACCAGGA TACAAGGACA CTTCACCGTT TTTAACCCAC	150
20	ACAAGGTCAG GTAATGTTTA CCTTGAAACA CAATCGCATA TGACCCTTTA	200
	TGCCACTCAC CTAGGCCTTT AATAATGAG	229
	(2) INFORMATION FOR SEQ ID :1015:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(wi) SPONENCE DECORIDATION, SEC. ID . 1015.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1015:	
35	GAAAATAATG ATTCATATTA CCGGGTATTT CTTATCCAGT CTTTCATTCT	50
	ATGTAAATTG TGTGTGTCT TATATATGCG TGCATGTCTC TCTCTACATG	100
40	TATATGTGCA TATGTATGTA TATATATGCA TATGCACATA CATGCCACAC	150
	ATGCACATAT ACACACACTC ATAGAGAACA AAATTATTCC GAATATTTCA	200

	TGAGGTTTCT TATTATAAGG AGACAATATT GATGCAATCT AATTAA	246
	(2) INFORMATION FOR SEQ ID :1016:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1016:	
15	TTCATAATCG CTGGCACTGA ACAAAGTTGC AGAATTCTTT GCCAGGTACT	50
	TTAGGAAATC GTGAAGATAA TTGAGTAATA AAGCAAGGCT CTTCTCATCC	100
20	AGAGGTGTAT AAGCCAACAT CGCTCCAATT CGTACAAATA ATCTCAGGAG	150
20	ATGTGGCGCT CCATACACCT GGGACATGGG TGCATCGGGA TGATCTGCAA	200
	GAATTTCAGC ATACTGTGGT CTCTCAAATT TATAGAGTAG CTGGGTACCC	250
25	AACATTACGT TGAAGTATTC TTTTATACTC GCCACAA	287
	(2) INFORMATION FOR SEQ ID :1017:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 299 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1017:	
40	ATATGAGAAA GCAGAGCAAA ACAGATGATG CTCTAAATGC AACTGACACA	50
	CTTGCTAAAG ACGTTAGGTG CTCCATAAAT GCTTGTTGAA ATGCTGTTTG	100

•	TCAACATTTG TTGTGAAAAA TTCATCTCTC CATCTAAGAA TCCTCATGAG	150
	TTAACCACAA TCAGTTCTAC ATAATTTAAC AGAAAACATC TGGTGGCACT	200
5	TTTAAATGTT TAAGGACAGC ATTTCACAAA CTAAGCCCGC CCCCAGTCCC	250
	ACTGCAGCAG GAGAAAATAA GGCTATGGAG AAAAGCAAGA TGAGTTATA	299
10	(2) INFORMATION FOR SEQ ID :1018:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1018:	
20	ATTACTCCTT CTCTCGAATG CTTCCAGAAG AGTAGC: CTC ACCACCTCAT	50
	GAGGAAAGGC ACTGCAACTT TGGTCAATGA TATCTGTTAG AAAGATCTTT	100
25	TCCTATATTT AGAAGAGTGA TTCTCATACC TGAGCATGTA TGAGAATCAG	150
	TGGGTTTGAG GTGGGCCCAA GAATTTCCCT TTTTAACAAG TTCCCAGAAG	200
30	ATGCTGATGT GGCAGCTTCT AGCACAGTGC TTGAAAATCC ATGAGTTTTC	250
	AAGAGGACAA TCTAAAGTGC TCCC	274
	(2) INFORMATION FOR SEQ ID :1019:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

PCT/GB93/01467

517

•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1019:	
	TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT TATGGAAAAA	50
5	CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA AACTCCTCAC	100
	GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA ATTAGGGCAG	150
	CATCTTCTAC CACTTTAAA GGCTACCACG AGACGGGGTG GAAATGCCAA	200
10	AAATGGCACC TCATCTTTGA TCAAAGATTC AG	232
	(2) INFORMATION FOR SEQ ID :1020:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 133 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1020:	
25	AACAGTCCAT GCTGATCTTA GTAACTATGA TGAAGATGGT GCTTGGCCTG	50
	TTCTTCTTGA TGAATTTGTT GAGTGGCAAA AAGTCCGTCA GACATCATAG	100
20	CAAGAACTAT GTGAAGAAAA TGCAAACCTT TAC	133
30	(2) INFORMATION FOR SEQ ID :1021:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1021:

518

	TCCTAGAACT CTGCTTGGAC CAGAAGATGT GAATAAACTT AAGCTTATTT	a
	ATTTAAAATC ACAAATGAGT TGCTCTAGAT TCTAAAAGGG TGAAACTTTG	100
5	ACTGTTGAAA GTTTAAGTAT TAGTAAACTT GAGTTACTTT TTCTTTCAAA	150
	TTTCACTCCG CTTCCCTGCA TTTCGAAGCT GCTCTTCTG GTCCTACCCA	200
	CCACCCCACC AACAAGACTT GTGTTTGTTA ATAGAAATAA TTTATCAAGG	250
10	TATTGGGGAT CCATTGTCTA TATTTAAAAC	280
	(2) INFORMATION FOR SEQ ID :1022:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1022:	
25	AAAATAAATA ACTTCTTAGA TTTTTGACTG AAAAGATCTG AGAATGTTCT	50
	GCCAAACAGC CGACCAACTG GTGCAAAAGG TTAAGGCTGA CTTGACTTAG	100
30	CAACCTGCAG CACAACCAAA AACACTGATG CAGTTCAGAG CTCTTCAAAT	150
30	GCATACTTCA GTGTTACACA CACATCAATT AAATTAGGTT AAATTAGTTA	200
	ATCCTCTAGA CAGTTTTCTT TTTGTTTTGC ATGCATCCCG TTCCATTTTC	250
35	ATTACGGGCA TCTATTCCTT GATCAATTAT GTGCTTTGCT TTTTAATCGG	300
	TTTT	304
	(2) INFORMATION FOR SEQ ID :1023:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 base pairs

PCT/GB93/01467

519

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1023:	
	TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT TATGGAAAAA	50
10	CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA AACTCCTCAC	100
	GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA ATTAGGGCAG	150
15	CATCTTCTAC CACTTTTAAA GGCTACCACG AGACGGGGTG GAAATGCCAA	200
	AAATGGCACC TCATCTCTGA TCAAAGATTC AGAGCAT	237
	(2) INFORMATION FOR SEQ ID :1024:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 320 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1024:	
30	GGCATGATTA TTAGAAACTA TTTAAGCTTT TTTCTTTGAA AAACAAGCTC	50
	CTTTTACAGA ATATAAACAA CAGTAGTGCC TGTGGTTTAG CCCACCAATC	100
35	TTGATGACTA AAAGTAGCTG ATGCATTGTG CATATGATGC TTGAGATGGT	150
	TTTTGCAAAA GCAGAAATCG CTGCAAGGTA ATCACAATAG ATAAAAGTGG	200
	TATTTTAAAC CTTTGAAATA AATGGATGTA ACTGTACCTT GGTACAGCTT	250
40	TTCACTTGTT TAGTTTTTAA ACGTTAGTAT AAGATTAGGT AATTGAGGGT	300

	TAGAGCCAAC AGGAATCTGC	320
	(2) INFORMATION FOR SEQ ID :1025:	•
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1025:	
15	TTCTGGCACC ACATTCAATA CTGATTCACA GGGATCTAAA ACATTCTAGT	50
	TATTCAGTCA CTCTGTCCTG TGTGGCAGAT AGGACTTATG TATCTTCAGA	100
20	ATATTTGAGG AGTCATTCTC AGAGTCTCTC ATGAGTGCTC AACTTAACTG	150
	TTCCACAGT CTGTCTTCAT AGCTGCATGT TGCATCTTCC AGTCTCTGTT	200
	CT	202
25	(2) INFORMATION FOR SEQ ID :1026:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	v
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1026:	
	ATTGGTAGAC AATATCATAA GAGTTTTCTG ATAAAAGATG CTTTTTAACC	50
	CTGACTCCCA GTCACAATTT TGGCATCTCA TCCATGGGAA AAAAATAGGA	100
40		
	AACTTATACA TTTCATAAAC TAAAGGTCAT CCAAACACTG CCAAAAACGT	150

	TTTTATAAAT TGAGACCTAC TTACATCACA TCGGTTTTCC AAAGAGAATA	200
	CACAGCGAAA GATGAGGCTC CACCCGGCCG GCACAGTCAT GAA	243
5	(2) INFORMATION FOR SEQ ID :1027:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1027:	
	TATTTGCATT GAGGAAATAT TAATTTTCCA ATGCACAGTT GCCACATTTA	50
20	GTCCTGACTG TAGGAAACAC TGATTTTGTA AAGTTGCCTT TATTTGCTGT	100
	TAACTGTTAA CTATGACAGA TATATTTAAG CCTTATAAAC CAATCTTAAA	150
	CATAATAAAT CACACATTCA GTTTTAAAAA AAAAA	185
25	(2) INFORMATION FOR SEQ ID :1028:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 312 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1028:	
	GCTTCTCTAT TCCTCCTGCC CGGGAGGAGT AGAGGAATTC TGGAGCCACC	50
40	TTAGTGGGCA ATGGGGGAGC TCCTGATGGT TCAGGAGCAG GAAATTTATG	100
		15/

522

•	TGGCCAAGGG TTGAATGGAA AGAGGCAGGC AGGGGGAGAG GGGCAGAGGG	200
	TGTGGGTATT CCCAGGGCCT TGAGAGTGGA CATGGCCCCT TCTCCTCAGC	250
5	CTTCCATTAG CAAGGATGTC ACTGCTGCTC TTGCCTGATG ACAGCCAGAT	300
	CTGTTCACAG TT	312
10	(2) INFORMATION FOR SEQ ID :1029:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Timeat	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1029:	
	ATTATTATA AATTTTAGTG AGCACCACCA AAGTTAGGAT TCAATTGAGT	50
	TTGAATTCAA ATTCATTCAA AAGTTGCACA AATTTATTTC TTTTTTCCTG	100
25	AACATTCCTT TACTTCAGAT TGACAATTCA TTCTATTTAG AGCGCTATTT	150
	TAAGAAACCT TGATGAATCG CCCTTGACTA AAGGAAACAA AGTAGAATTT	200
30	TATACAGATG GAAAAAGA	218
	(2) INFORMATION FOR SEQ ID :1030:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 124 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1030:

	TTATTAGGGG GTTTAGAAAA TAAATTCGTA GGGTTTAAAC ATTGAATAAA	50
	ACTACAAAAA AAGACACACA TTCAGGTAGC GAGGCTCTGG GGGTAACTCT	100
5	TTCTTAGTTC TTTGGACACA TCCG	124
	(2) INFORMATION FOR SEQ ID :1031:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1031:	
20	TTTTGCCAAG TATATGTAGT GCAAATATTT TCTTTCAGTC TGTAGCTTGC	50
20	CTTTTATTT NTTAATGGGT ATCTTTAAAA AAATGGAAGT TTTAAGTTTG	100
	AATGGAATTC AGTTTGTTTT TAAAGCTTGT GCTTTTTGTG TTCAACTAAG	150
25	GGATATTAGC TTACCATTTT TCTCGGTTGA ATATTATGTG TTTATAGACA	200
	AGAAATGGTC ACTAAAGCAA AATAACTGAA AATTATC	237
30	(2) INFORMATION FOR SEQ ID :1032:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1032:	
40		
	ACAGCAACCG GCACTCACTT GGAATCCCAG TGTTCCGAGT TCTAAGGCCA	50

	CTGAAAACCA TCAAGCGCTT GCCAAGCTCA AGGCCATCTT CGACTGCGCA	100
	GCGACTTCCT TGAAGACTGT TTTTAACATA CCAAAGGAGG ACAAGCT	147
5	(2) INFORMATION FOR SEQ ID :1033:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double.	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1033:	
	AGGCCTGCCT ACCGTAGGTC TCTCAGAGCC TTTACTCTAG TCACTCTTTA	50
20	GAGGGGGCA CTAGAAGCAA TATCTCCGAA ACTTCTTCGA CTGTCGAGAC	100
	TTTTTACTCA TAATTCGCTT CAAGCCAACT ACGGAGGCGC ATTTACAAAA	150
	CTGAAATACG AGCGACACCC CAGGAACGCA CGGAGACATG ACGCCCTTAA	200
25	TCCTCTGTCC CTACTCCCTC TCCTAGGACA CCGCATTA	238
	(2) INFORMATION FOR SEQ ID :1034:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 63 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1034:	
40	TCCATGNCTC NTGGTCTCTG TGCNCTTGNC AGGGGCATGC CAGGGCCCTT	50
70	GGACTGTGCA GGG	63

	(2) INFORMATION FOR SEQ ID :1035:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1035:	
	CGACCGGCGC TCAATGGCGA AATTCCGAGC CAGAGCTATT GGTTGAATGA	50
15	GTAGCGCTGA TGGTTTAGAT AATAACTAGT ATGGGGATAA GGGTGAGCAG	100
	GCGCGCCTTG AGGCAAGAAG CGGGTTAGAG CATCTCTACT TTAAAAGCCA	150
20	AAGCCTATAA CGGTAGCGTC TACATCACGA	180
20	(2) INFORMATION FOR SEQ ID :1036:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1036;	
	CCAAATACGA TGACATCAAG GAGTCGATCC GTCAGCGTGA CTTGAATACA	50
35	CCACCGCCGA CGACCCGAAA GCCTGATGAG GAGAAGTCCA GAATCAGGAA	100
	CAACGGCGAC ACTCGACTAA CCATTTTAAA CCAATTGGAA CC	142
40	(2) INFORMATION FOR SEQ ID :1037:	
4 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs	

526
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1037:	
	CCACATGGAG TGACCTGGGC CTCTGCAAGA AGCGCCCGAA GCCTGGAGGC	50
10		
	TGATTGTCAA AGCAGGGGGC AGGACCCGGG GGCAGGAGAA ACCAG	95
	(2) INFORMATION FOR SEQ ID :1038:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1038:	
25	ATTTTATTGT AGTAAGAATA ATACATAGAA ATAACATTAA ATAAATATGT	50
•	TTGACAAAA CATACACACA TAGTACAGGT AGAACATATA ACTGGTTGAT	100
	GCTAAATAAC AGATCCAGAT AATTTTCAAT TTGAATTAGC AGCAGGGAGT	150
30		
	CATTGAATGC TATGCCCTTA GAATGGCTTG CAGGCTTTCA CGAGT	195
	(2) INFORMATION FOR SEQ ID :1039:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(x1) SEQUENCE DESCRIPTION: SEQ ID :1039:	,
	GGTTGTCAAG AAAATGAAAG GTAAAGCTCA GAAGGGATAA GGGAAGACAT	50
5	TACAGAATTT ATCATCAAGC AGGAGGTTTT TTCCAGGTTC TAAGATGAGG	100
	TTAAGTTTCT TAACAAAAGA ATAAACAACT GTGACTCTAT CTGTCGGGGG	150
10	AGGGTCTAGA CAGAAAAAT GAATATACCC CAAAAGGCTG AAAAAAAAA	200
10	CGAGACTTTG ATGGAGAC	218
	(2) INFORMATION FOR SEQ ID :1040:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 318 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	, ,	
	/wil SEQUENCE DESCRIPTION, SEC. ID . 1040.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1040:	
25	TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC	50
	ATGTAAATTT TAGCAGTAAC ATCTGATTCT AACAGCACAT CATGCTATTC	100
30	CTTTCATAGA GCCTTCAGAG ATTCAATGCT AAACAAATTT CCTTAGTTGG	150
	CATCAAGGCA CTGATCACTT TAGAGGCTTT TAAGAAATTA TTTAAAGATG	200
	CAAATGCCTC TGAGTGAAGT GTACTATCCC ATCACTGAAG CCCACAGGAA	250
35	CAAGTCCTAC AATTTTAAAA AGGCTCGATG GAAAAATTTC TCAATCCTGA	300
	AATCCCCTAG GGAAGGGG	318
40	(2) INFORMATION FOR SEQ ID :1041:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	

528

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID :1041:

ACGTACCGAG CCGTCGTCGC GGTGCTTGAG CTTGAAGGCG AGATAGCCGA 50 10 TGCCGCCGAG GCGGTGGACC GCATCACGGT GGCGCTGACG AACGCGAGAT 100 TCAGCAGCAG CGATGCCATC AATAGCAGCC TGATCGGACG CATGACCGAC 150 15 TCTCCCTGTG AGCGGAGGTT GGGGGGCCGA TCTCCCGCCG GTGCCGGGC 199 (2) INFORMATION FOR SEQ ID :1042: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

25

' (xi) SEQUENCE DESCRIPTION: SEQ ID :1042:

30	GCCTCTAACA	AAACTAGGCT	GTCCCGGACC	ATGGTAATAG	AATTGTTTAC	50
	CTTTATACCA	AGAAGGTTGG	GAAAGCACCA	AAATCTGCAT	GTGGTGTGTG	100
	CCCAGGCAGA	CTTCGAGGGG	TTCGTGCTGT	AAGACCTAAA	GTTCTTATAG	150
35	ATTGTCCAAA	ACAAAGAAAC	ATGTCAGCAG	GGCCTATGGT	GGTTCCATGT	200
	GTGCTAAATG	TGTTCGTGAC	AGGATCAAGC	GTGCTTTCCT	TATCGAGGAG	250
40	CAGAAAATTC	GTTGTGAAAG	TGTTGAAGGC	ACAAGGCACA	ATGTCTGGAA	300

(2) INFORMATION FOR SEQ ID :1043:

529

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1043:	
10	GAGACCAGTC TCAAGTGGGA GGGGCTGATG GTGGGAAGCC CTAGAAGAGA	50
	GTCTGGGATG AAGCGGCCTC CTCCCTGTCT TGCCCTCCAA AATTGAGTCT	100
15	GGCCTGATTC CTTTGAGGAG CAAATTTTAC AATCATCCCT CACCCTAACA	150
	CACGGTGAAA CTGGAAAACC	170
20	(2) INFORMATION FOR SEQ ID :1044:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1044:	
30	GGCCCCCCT GGGGACTGCT GGTTTCCAGG GGCCACCCCC CCTCATCCAA	50
	AAGAAGAATC AAGTTTTGTT TTCCTGTGGT TCCCTTGCTC TCCCCGGCCT	100
35	CACCTCGAGC TTCCACTTGG GCCCTTTCCC ATGCTTCTAC TTGAGCCCCG	150
	CCTGCCTCAC CGTCTGCCTC ACCGCCACCT CCTGCTCAGA GTGAGTGCAT	200
40	GCATGCCAGA CAGATACACA TATACATACA CACACACACA CACACCCTAT	250
	ጥጥጥጥጥጥጥ	260

	(2) INFORMATION FOR SEQ ID :1045:	•
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1045:	
	AAATCTATAA TTTTAAGGGC TTAACCTGTG ACTTTAATAA GCTGGAACAG	50
15	TCCACTGAAT GGGTATAATG AATTGCAGTA TATACGTATG ATCGCTTTTT	100
	AAGTGATTAT CTTTTCTTTC GTTAAGTCAT GTAAATTCAT AAATTTTTTG	150
20	GCACTGATGT GTTG	164
20	(2) INFORMATION FOR SEQ ID :1046:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1046:	
	TCCCTCCTTT CCGAACTGGA GCCCCATCCT CTCCAGAGTA TCCAGGGCTT	50
35	CTTCACTCCC GGGTACCTGC CCTTCGGCCC CTTTTCACCA CAGCTGTGCT	100
	ACTGTCAACC AGTCTTTGCT GCATAGGCAT	130
40	(2) INFORMATION FOR SEQ ID :1047:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 285 base pairs	

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1047:	
10	GCTTAACTGG AAATTGGAAG GGAAAAGAAG AAGAAACAAT GTAATGTAGC	50
10	AGTGGAAGCA AAATTCTCAC AATGAATAGC AGTCTTTCCA GCTTCTTTGA	100
	CACGGATTIT CTCATTAGAA AAGACGACTC TCCTGAACTA GGGATGAGTG	15
15	TGAATCTCCA TTCGAGGAAG GGGAAGAAGA GCTCGGAGGG TGACAGCCTC	200
	CCCCTGAGAG AGCCAGTTGC GTTCATGATT TTGATTCCTT CTTCCTCCTG	250
20	ATGAAGTATC TGCCCAGGAG CCCAGGAGCA GAATA	285
20	(2) INFORMATION FOR SEQ ID :1048:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1048:	
	TARARCTGAC CTAGAAGCTA TCAGCAACCA CAAAGAGACA GAAGAAAAGA	50
35	CTGCTTCTGA GGCTCTCTCA TGGAACCTAC TGATGATGGT AATACCACGC	100
	CCAGAAATAA CGGAGTCGAT GATGATGGCA ATGATGACGG CGATGATGAC	150
	GGCACTGATG ACCCCAGGCA CAGCGCGAGT GATGACTACT CAACACGAGC	200
40	CAGGTCTTTC TGAAGGCCGA GAGAGCTAAA TAA	23.

	(2) INFORMATION FOR SEQ ID :1049:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1049:	
	ACTITAATIT ATTICGGATG CCGGAATIGI GCCCAGAGII TCTCCIGAGC	50
15	TTGATTCCAT AGCTAGCAGC TTCAATCCTT CGCAGCTGCG GTGCGTTCTG	100
	AACTCTGAGC TGTCCTTTCC TGACAGGCAC TTTCCATAGC ATCTGCCTGC	150
•	TTAATTCCTC ACGACTCAGA AATGTTAACG GCACTGTCGA GTGCTGTGAT	200
20	CATTITGCTT TAACTATGTA AAGCTTTATG CCCTTCGAGA AGCTTATTTC	250
	GAGATAGAGC TAGAGAAGAA AAGCAGCAAA ATTCGGTCGA TAC	293
25	(2) INFORMATION FOR SEQ ID :1050:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 219 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1050:	
	AAAACTATAC TTTCATTCAA AAGAAGAGCT GAATTGATGC TTGAGTTACA	50
40	GCACAAATCT ATTATTAGTG AATGAAGTAT ATTCTTGGCA GATAAATACC	100
· -	AGATCAAAAG TCCTGTTTCA GTAATTTGAT TAAACTGTAG AATACTAAAA	150

	AATAAGTTAT TTCTACAGAA ATCTTTGAAG GGAGCAAAAA ATCAAATCAC	200
	AGTATATACC TAATGGCTA	219
5	(2) INFORMATION FOR SEQ ID :1051:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1051:	
	AGCGACCGGC GCTCAAGTGG AATTCCGTGC AGTGTTTGAT TTTTCGTTTT	50
	TGCGATAGTT TACTGAGAAC	. 70
20	(2) INFORMATION FOR SEQ ID :1052:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1052:	
	ATTCCTGACC TGTGATATCG GCCATTAGAG CCTTTCAAGA ATGGTACCTC	50
35	CTGCCGATGA TTTTTTTAA AGCCTTAATG AAGAGAGTGT CCTCTGACTC	100
	CTTCCAGAGA AGATAGGATG TGAGTGAGTA AGTTATGTAT AATAATTTTA	150
40	TCTCAAAATA ACCACGTCCT TGATACCATT CCCTGTATAC CAAGGAAGGG	200
40	TATT	204

	(2) INFORMATION FOR SEQ ID :1053:	·
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1053:	
	ACTARACACA GCACTGAGAA TTCTCCTCTT TTTACAAAAA TGACAGACTT	50
15	AAGAGAGGC ATGGAACAGA TTAAGAGAAT TAACACGGAG AGGAGAGCAG	100
	AGGTATAAAA GGTATCCAAG AAAAGTAAAA CATACAAAGG CAATTCAAAT	150
	CAAAGTGAGC ACTGCCTATA TACAGACAGA AAGCGAGTCC TCTATGAAAC	200
20	CATACCCGAC AGAAAGTACC GGAATACCAC CGACACTGAT GTCTTCCAAA	250
	CG	252
25	(2) INFORMATION FOR SEQ ID :1054:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1054:	
	AAATCAGGAA ATTGTACATG TTAACAAAAT AGTATAACCA TGCATACATA	50
	CATCTGCTTA TTAAACACTG AAGTAAAAGA ACTAATCCAG TTTGCAGTCT	100
40	TTAGAGGTGT TTAGTATTTC ACTCCGTTCT GATGGAAGCA CTTTGAATGC	150

	TTGCATGGAG ACATAAAACT GAATATTTAA TTGACAATAG ATCATGCGCC	200
	TGTATTTATA AA	212
5	(2) INFORMATION FOR SEQ ID :1055:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1055:	
	ATAAACTGTG CTAACTAAAG TTTTTATTTC ATCAATATAA AAGCTGTAAA	50
	AAAACTGAGG AGAAAGCAGT TGCCAAAAAG ATGAAAGAAA AACAACATAG	100
20	AAAACCTTTA AAACAGGCAA AAGTCAGTTC ATAATAAAGT AACTCATCTC	150
	AC	152
25	(2) INFORMATION FOR SEQ ID :1056:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1056:	
	AACAGATCCT CAGTTTCTCT GGAGACACCC CCAATTCTCG GGTGAGTGTT	50
40	GAAACCTGAC AACTGACTGT TAGCCTTGTC ATCATCCTCA TTGGAGATGG	100
40	AGATGTTGTA GTCGGAGCCT CATTCCTTCC GGGGCACTGT TTCTTCTAAT	150

•	GGCAACCATC AGAGCCTGTC TGGAAACAGC CTGCTGCCTT TGCTAGGGGG	200
	GCAAA	205
5	(2) INFORMATION FOR SEQ ID :1057:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double.	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1057:	
	GAGAGAAGAG CGCTTTTCTG GGCTCTTGGT TACTCCGTCA GAGACTTTGC	50
20	CCTTTGTCTG TTTAAATACA CTGGGAGCCA GAGCTGATTC CCCACCTGCT	100
	GCTGTGGTTT TCCGCTTAAC ACAGGAGAGA YGAGTTGGTC TGGTATATTT	150
	GATAGCAGGT TTTAAAATGA ATCC	174
25	(2) INFORMATION FOR SEQ ID :1058:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1058:	
	TATTTGATGG TCCATAAGAC TTTGTCAAAT GTAAACCTAC AGTTTGATAA	50
40	GCTTTAAAAT ACCATGTTGA CAGCATTTTG AATTGTTTCA TAGACGTACT	100
	TATTTAACTG ATGCGAACAT TCACA	125

	(2) INFORMATION FOR SEQ ID :1039.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double	
	i i	
	(D) TOPOLOGY: linear	
	•	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1059:	
	•	
	TTATCTTACA ATTCTACTTC CCAGCATCCT GAAATTTTCA AATACTGTCT	50
15	TAGTATATTA AACTCTTTTG AAATAGATAA CAAAAGCACC ATGGGAGTCC	100
	GTTGAAAACT TAGGTTTGTT CCTTCTAAAA TTTCTAAGTC CTTCATTATG	150
	GTTGAAAACT TAGGTTTGTT CCTTCTAAAA TITCTAAGTC CTTCATTAIG	130
	ACTATAAAGA AAAAAGGTTC ATCAATTCAA AAAAAAATCC TGATTCTTCA	200
20		
	AAATA	205
	•	
	(2) INFORMATION FOR SEQ ID :1060:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) Toroboot. Illical	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1060:	
35	ATCTCACAGA TTCTTTTTCA CAGATTCATT CATGTTGAGT GAAAGAAGCC	50
	AGATGCAAGA GTCCACACCA CATGATTCTG TTTCTATACA ACTTAATTTG	100
		150
	AAAACTAAGC AATACTTACA GAAGTGAGAA TAGTAGTTGT CTCAGGGTAG	150
40	GTGAGTGTCA TGAAGGGAAT CTTATACGTT TGCTAAAAAT GTTTTATAAT	200
	GIGHGIGICH IGNNGGGNUI CIININCGII IGCINNNNUI GIIIININGI	200

	ACTIGGATIT IGGGICIAL SCIEGOAGG GGAAGGGAA CAIIGCAAA	243
	(2) INFORMATION FOR SEQ ID :1061:	
5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1061:	
15	TAGCACATTG CATCCCAAGA GCTGTAGTCA AAATCCTCAA AATCTGATGA	50
	AAATGGCATA CTACACTAAG GAGGATTTTT TGGGCATTTT CCATTCATAT	100
20	GCAGAATCAG TGGTTGAAAA AGGAGAAAGA GAGATTTTCT TTACAAAAGC	150
20	TCCTGACCCC ATTAACATCT TATCTATAAA TCTGATATGT TCCTGACTCC	200
	(2) INFORMATION FOR SEQ ID :1062:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1062:	
35	GCGCACAGCT GAGAATCTCC GGTCTTGTCT CACTTTGGAC TGGGACAGTG	50
	GATGCCCATC TAAAAGTTAA GTGTCATTTC TTTTTAGATG TTTTACCTTT	100
40	ACAGCCATAG CTTGATTGCT CAGAGAAATA TGCAGAAGGC AGGATCAAAG	150
70	ACACACAGGA GTCCTTTCTT TTGAAATGGC CACGTGCCAT TGTCTTTCCT	200

	(2) INFORMATION FOR SEQ ID :1063:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1063:	
	TATCAAATCA TGAGTTGAAA GATTTTGACT ATTGAAAACC AAATTCTAGA	5
15	ACTTACTATC AGTATTCTTA TTTTCAAAGG AAATAATTTT CTAAATATTT	10
	GATTTTCAGA ATCAGTTTTT TAATAGTAAA GTTAACATAC CATATAGATT	150
	TTTTTTTACT TTTATATTCT ACTCTGAAGT TATTTTATGC TTTTCTTATC	20
20		
	AAATTCAAAT CTCAAAATCA CAGCTCTGAA TCTTAGAGTA TCATAA	24
	(2) INFORMATION FOR SEQ ID :1064:	
	(2) Information for SEQ ID .1004.	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
50		
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1064:	
25		-
35	CCCTCATGTG CCAGTTCGGT CTGCCTGCAG AGGCTGTGGA GGCCGCCAAC	5
	AAGGGCGAGT GGGAAGCGTT TGCAAAGCCA TGCAGAACAA CGCGCAAGTT	100
	TGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA GAGGAGGACA	150
40		
	TGGAGCCTGG ACTGAGCCAC	176

	540	
	(2) INFORMATION FO' SEQ ID :1065:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1065:	
	CTCTCCCCCA CAGGTTCTCA GCAGTTACTA AGATGTCCCC TGATTTCATT	50
15	GACCTCTGTG TGTCTTCAGT CCTTGACCCT TTAAGGCTCC CTGGTGCCAG	100
	AATGTCTGCA GCTGTAGGAT CAAAGACCCT TGGGGGAAAA ATCCATTCTC	150
20	AAAAGAGAGG AAGATGGGGT G	171
20	(2) INFORMATION FOR SEQ ID :1066:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1066:	
	GAGTCTATAT CCCTTACTCA GTGCAGTTCT CAAAGTCCTT TGTATGTCGT	50
35	ACAGGATCAC ATCTGTACAT ATCACACTCT TGTGGGGTAA GCCCAGAAGC	100
	TCATACACAG CTTCATGGGT TTACTTTCCC AAGCACTTCC TCCCTCCCTG	150
40	CAATATCTCC CCAGCACTTT CTGCTTCCTA TCAGCTTTCC CCTTTTTCAA	200
70	c	201

250

541

	(2) INFORMATION FOR SEQ 1D :1067:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1067:	
	ATCAACCGGA GGTGAAATGA AATACCGTCA ACCTGTGCAT GAGTTTGTGT	50
15	GAACTGAATG TGTGTGCATA CACATAAGCA TGTGTGCGAG CGCAAATGTG	100
	GCGTCTCCAC AGCATGCGCA ATCCATGAGT CTGTTTCTAA CGCGCGCGCG	150
	c ·	151
20	(2) INFORMATION FOR SEQ ID :1068:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1068:	
	ACTGTGTCAT GTCAGGTTAG ATCTGAATCT CTAGGAGAAT AGCTTTTTTG	50
35	ATCTGTTTGC TCCTTTGAGT CTCCCTTTTA CTTTACAACT AGAAAACCAA	100
	TCGCATACTT CACTTCTATC GCTTCCAGAT ATGGCATATT TTTCTTAGGC	150
40	TACCGTTGAA ATTTAGCATA ATATTTCTCC CTTACCTTTA CGTCCTTTTA	200

AAAAAATAGG ACTATAGTAA GTCCTCCGTG TCGGTGGCAT GTTTTTGGAA

	ACTGACTTTA AAGAAAACAT ACA	273
	(2) INFORMATION FOR SEQ ID :1069:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1069:	
15	CARTCTTGCT TATARATAA GAACACCTTT CAATTAAGTG AGTGGGTCAT	50
	TCCTGGTGCA ATTGTGATTT TTTTTTAGCC AAAATGAATG GCAAACTCTA	100
20	TTTAGAGCAA AGTAAGTATT AGAAAACCCT AGGAACTCTT AATCAACGTT	150
	TATTACACTT TTATAAAGGC AAACTACGCG AAAGAGCCC	189
	(2) INFORMATION FOR SEQ ID :1070:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1070:	
35	TTTATTCCAC TGGAGAAAGG GGATTGAAAA TCAGTTAGAA CCAATGTATT	50
	TCTTGCCCCA CGGAACACTA TTCCTATAAG ACAGCTGAAA GAAGCTGCCG	100
40	TGAGGAGCTC AGCTCCAAAC ACAGGATCAG CACCTCGCAT AGGAATTCCC	150
	ATGAATCACG ACTTCTCATC CCGTTTTATC AGAGTGCATA TACGTCCTAC	200

	TTAAGGAAÄA GTAAAACAGT CATTTACGAA AGAAAGTCAA TCTGTATCCT	250
	AAGCATTTTA ATAAAAAGTC AGAAGGAATT	280
5	(2) INFORMATION FOR SEQ ID :1071:	
	(i) SEQUENCE CHARACTERISTICS:	. •
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1071:	
	AGAACCGAAG CCTGCAGAGA GGCCATTCTG ACAGGCTGGG AAATGTAGCC	50
20	TACCGCCAGA AGCTAGAAGC AAGCACTTCC TCCTAACCGA GTTTTTGAAA	100
20	GACTAAGGGA AAGAGAATAG AGAAGGGATA TTCCCATCTA CCGGGGAAAA	150
	GATGCGCAGT AACAAACCAT CTAGGGAGAC AGCCTTCTAA CAG	193
25	(2) INFORMATION FOR SEQ ID :1072:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1072:	
	,	
	ARAGCACCTT CCCCTCGCTG AGCTCCAGGG GGCCCAGATA GGCCACGCGC	50
40	AGCTCCAGCA TCTTGGAGAG CTGCACGTCA TCTGCCGCGT CGTAATCCTC	100
	CACHEROCAC CCAMACCCCC CACHEROCCC CCCCCTCACH CCCTCCACC	150

544

40

	TCAAGTTCCC CTCGAGATTC ACATC	175
	(2) INFORMATION FOR SEQ ID :1073:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUE CE DESCRIPTION: SEQ ID :1073:	
15	AGTGCCCTAC TCTTTTCCCA AGAAGGGTCA AAGCCTACAA TATCATCAGG	50
	GGGCATGAAG CACATTAATT TGCAGTGGCT GCTTCATATG AGGAGGTATG	100
20	GTGGACAGGC TAATTTTTCC TTGAAAATGT GGCTTCTTCA ACTCCTTTCA	150
20	AATTTAGGAT GGAATACTTC CTGAAATAAA AACTGGGCTT TATGCAGGAT	200
	TCTCTTTGAA AATTCTTGTA TGTCCAGAAC AAAAGATAAA ACTAATTGTA	250
25	TTCCTCACAT TCACAATCCC CATTGGTCTG AAGTCACGTG ACACAGAGCA	300
	TCTATATAGC ACATAGTGTT TAAAGACTAA TGAATGCAA	339
30	(2) INFORMATION FOR SEQ ID :1074:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1074:	

ATTAATTATG CGGTCCTCCT CCTGGCAGCT GGACACCAGT TTGAATCTTC

545

•	CTTTGAGCTC CGGAAAGTTG GTAATTACAA CTTGATATTT CTACATGGAA	100
	ATCAAGAAAC TCGGACCCAA CTTGGTGCAA AGACGGATCT CCGCCGATTC	150
. 5	TGACGGCTCT CCAGGTTTTG TC	172
	(2) INFORMATION FOR SEQ ID :1075:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1075:	
	AGAGTAGGAA GAGGGAGGG AACAGGCATC TAAGATAGAC TTTCTCCATC	50
20	TGTTGGGAGC CTGGGCAAGT AGGAAAGAAG CCTTTTTCAT ACACTTCAGT	100
	CGTATGACTG AGCTGCTTGG CAGGGCACTG GAAACGACGA ACTCGCGCAG	150
25	CCTGCAAATG AGACCACTCT CATTTCTCAG TTTCGATTTG ATTCACTCAC	200
	TAGTAGTTAG GTAAATACGA GCTCTATGTG ACTCAAGGAA TGTCAGGCTG	250
30	GGGCAGGTGG CAAAAGCTAC AGTGATCGAA ATTCACGTTG CTACTGATG	299
30	(2) INFORMATION FOR SEQ ID :1076:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 283 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1076:

40

546

•	GCCCTCATCG GCGATACTGG AGGTTCGCTT TCTCAACCCT GTGGGCTTCA	50
	CCCCAGACAC GCCCTGAATC GTTTCATGTT CCAGCATGCC TGAGACAATC	100
5	ATCGACTGAA GGATGTTCTC TAACACCCGC ACGAGCTGCC GGCAGATCTG	150
	AATGCCCAAG TCACTCAGCA CCTGCCGATA CTCAGCCAGG TCAAAATCGG	200
	CGAGGTAGTG CTCATGCCTG GCGAGACGTG TTGTGCTTAA TGAAGCCCTA	250
10	TCATTCGAAG TATTGCTATG AGCAGTGCGA AAA	283
	(2) INFORMATION FOR SEQ ID :1077:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
		••
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1077:	
25	ACCARTCARG TACACTARAT TAGRATATTT TTARAGTATG TARCATTCCC	50
	AGTTTCAGCC ACAATTTAGC CAAGAATAAG ATAAAAACTC GAATAAGAAG	100
20	TAAGTAGCAT AAATCAGTAT TTAACCTAAA ATGACATATT AGAAACAGAA	150
30	GATATTACGT TATGCTCAGT AAATAATCAA GAGATGGCAT CGCGTAAGAA	200
	GGAGCCCTAG ACTGAAAGTC AAGACATCTG AATTTCAGGC TGGAAAACTA	250
35	TCAGTATGAT CTAAGCCTCA GTTCTCTNGT CTGCAAAATG AAAGCAC	297
	(2) INFORMATION FOR SEQ ID :1078:	,
	•	

(A) LENGTH: 291 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

547

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1078:	
	AATCTTTTAA TCAATCGAAA CCTTAATAAT TAGGACTGAT AATAGTGATC	50
••	AGTGATTGAA CCTTTATTAT TTACCAGCTA ATATAGTAGG CCCATAAATA	100
10	GGTTATATCA TTCGTAGTCA CAATAACCAC ATACATCACA CACCATGACG	150
	TAGCGCTACT ACCCATACCT GCTAGCAGTC AAGGTTCAGA TAATCATAAC	200
15.	ACGCCCAACA TCTCATTGAT AGTGAGTTAT CCAAACAGGA ACAATCTCAA	250
	GTTTATATCT AAAGCCCATG TTCTTTTGCT TAATATTAGA G	291
20	(2) INFORMATION FOR SEQ ID :1079:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1079:	
30	AGTCACAGCC CCTATACTCC CTCTACACAT TAACCACAAC ATAAGCGGGG	50
	CTCACTCACC CACCACATTA ACACCACGAA ACGGGTAATC TAACACGAGA	100
35	AAACACCCTA ACGTTCATAC ACCCCATACA CCATTA	136
	(2) INFORMATION FOR SEQ ID :1080:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 300 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

54

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1080:	
	CCAAGGTCGC CTGTGTGCTA GTCACGACCA TTAGGATCCG AAGAAGAGAT	50
10	GATGACTACC CTAAAAGTAA GGTCTGTGAA CAGCCTGTAA TGGGACGTGA	100
10	GCTGCGGTAT TAAAAAAATC AAGAATGGAA GCGTTCCTCA ATTGTCGTTG	150
	AGAATCATAC CAACACGGCA GATGCAACCA TGAAAAACGC AGCTGCGTAT	200
15	CGCGCGTTTT TCATGGTTCG CATCTGCCGT GTATGCAATG ATTCTCAACA	250
	CACATTGGAG TCACGCGGCC TGCGTAAGAG TATGAAGGTC TTCCTGTAAA	300
20	(2) INFORMATION FOR SEQ ID :1081:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 219 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1081:	
30	GTTAATGGTT TTTTCATACA TATGAGACTG AGCGGTCAAA GTTTTACTAA	50
	AGTCTTTATG ATCTTTAATT AATACTCCAA GACATCCGAG TTTGGCAGAT	100
35	ATTGGATGAG ATTTGTTTTG CTCCTTACTT TCTTTGTATA CAGCCAAGCC	150
	TGAAAATCTC TAGACATTTG CTGAAATTGA TGAGAGCATG CACAGGACGA	200
40	CTGAAGGTGC TGGACATGA	219
70	(2) INFORMATION FOR SEQ ID :1082:	

549

(A) LENGTH: 360 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1082:	
10	ATTTTGGGAA AGTGAGCATG AAGAAGGGAC TCAGAGCTGC CAGGTACCCG	50
	ATTITIGGAA AGTGAGCATG MAGNAGGGAC TCAGAGCTGC CAGGTAGGGG	
	AGTOTCAGGO TOTGACATOT CTTGGGGCCC COTTCTGCCA CAACTTCTTG	100
	AGICICAGO ICIGAGA CONTO	
15	CCACTTCACG GACTTGAATT ATGTCCCGCG CCTAAAAAAA AGATTGGCCT	150
	GCAGCACAGG CGTGTATCCT CTCCAAAAAG CTGCTGCTCA TTTCTGGCCC	200
	CATCTGCTGC TATCTTTGCC AGTCAGCCAT CACAGTTTGG CATCATCAGA	250
20		300
	GTCTCAGCTA GAGGGAGCGT GTCATTTCTG CCTTAGTGGT TTGCCTGCGA	300
	CCTGACCAGG GCAAGACCAG CTGGGATGTC AAGTGACATT TTGGGAACTT	350
	·	
25	GTCGGAAGTT	360
	(2) INFORMATION FOR SEQ ID :1083:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
دد		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1083:	
		50
	CATACATATG AGACTGAGCG GATCAAAGTT TTACTACAAG TCTTTATGAT	50
40	CTTTCAATTA AATACACTCC AAGACATCGA GTTTGGCAGA TATTGCGCCC	100
	CTTTCAATTA AMINCACICC AAGACAICGA GIIIGGCAGA IAIIGCGCCC	200

550

٠	GCCGTTTTGC TCTTCTTATC TTTGTATCCA GCCAAGCCTG AAAAGTCTCT	150
	AGACATTTGC TTGAAATTTG ATGAGAGCTT GCACAGGCCG ACTGAAGGAT	200
5	GCCGGACATG ATTCTCTGCT TTCTGGTTCA ACAAAAAAA AAAGTTCCAG	250
	(2) INFORMATION FOR SEQ ID :1084:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1084:	
20	TNCTAGATAC NTCCCTCTGT CTCACATTCA TAGTGTGTTC TTGTCTAGTG	50
20	TATGAAGTCT CACNCAAGGA AAGTGTNCAG GCAGAGTTTG GGGAGAGTGA	100
	AAAAAGTGAA TGGCCTATAT NTGCTCTNTT GGGTGNTCCA NCCATTATTG	150
25	GGGTGAACCC TTTCAGCTTT TTCCTAAAAA TTTGAAAAGA NTTTTTTAAA	200
	AAATTAAAAA GAGGATTTTT AAAAGGAATA TCTTGTTCAA AATTTNTTAA	250
30	GTTTTAATAG G	261
	(2) INFORMATION FOR SEQ ID :1085:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1085:

		50
	CTTCATGATC TTTTTCGATT TTAAAATGTC ATGCAATTTT AGAGAAAAGC	100
5	TGAAGGGTCA CCCAATATGG CGCGACACCA AAAGACAAAT ACGAGGACAA	150
	TCACTTTTC ACTTTCCGCA AACTATGCCT GGACACTTCC TTGGCGAGAC	200
10	TTARTACACC AGACAAGAAC ACACTATGAA TGCGAGACAG AGGGAGACAG	250
10	AGGCGAAATA	260
	(2) INFORMATION FOR SEQ ID :1086:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1086:	
25	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT	50
25	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA	50 100
30		
	TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA	100
	TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA	100 150
	TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTCGG AAGCTATAGA TTTAAGGGAA	100 150 200
30	TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA GACAAGACGG ACT	100 150 200

250

264

552

		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1087:	
	TCCCAGGCAC CCGCTGAATT TCTGAGGCCT TGCTTAAAGC TCAGAAGTGG	50
5	TTTAGGCATT TGGAAAATCT GGTTCACATC ATAAAGAACT TGATTTGAAA	100
	TGTTTTCTAT AGAAACAAGT GCTAAGTGTA CCATATTATA CTCGACGTCG	150
10	ATCATTTCTC AGTCCTATTT CTCAGTTCTA TTATTTGAGA ACCTAGTCAG	200
	TTCTTTAAGA TTATAACTGG TCCTACATCA AAATAATAGA AATTACGTTT	250
	TTTTTT	256
15	(2) INFORMATION FOR SEQ ID :1088:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1088:	
	TTGCTTAGAA CGGAGCTAGC AAGACAAAAA TACTTCAGTT GGCATCTCCC	50
30	TTAAAGCACA TCCCCAAACG CGGGTCCTGG CCCCAGACAG GGAGACCAGG	100
	GCTCTGACAG TGACAGGTTC TTCCCTCTGA AAAAAGAATA GAAGAGGAGC	150
	TCCTCCCTAA CCCACAGATT CCCAGGGCAG ACCCTGGGAG GAGGTGCTGA	200
35		

AACACAGAAG AGAGTGTGTC TTCCCCAACC TCTACCAGAC AGTAGAGAAA

(2) INFORMATION FOR SEQ ID :1089: 40

CTGAGGCGAG AGGC

(i) SEQUENCE CHARACTERISTICS:

553

(A) LENGTH: 157 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear .5 (xi) SEQUENCE DESCRIPTION: SEQ ID :1089: GACCTGGAAT TTGTTTTCGT CTGTTCAGTA GACTCCGATT TCAGAATATG 50 10 TCGGAATTTC AGACTCCGGA ACTTTTGAGA ATGTCATTAC AGGAACTTTG 100 TTTACATACC GAGCTGTTAG CCCCAGTCAC TGGGTCCGAA ATTACGCCGA 150 15 157 TACCGAC (2) INFORMATION FOR SEQ ID :1090: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :1090: 50 GCATATACCA AAAAAGGACA AACAGATAGA AGAGTCATCT CAGTGTGTAA 30 CGAGGAAAAG ATTTATCTCC CATCCTCTGA TCCTCCATAT GATATCTGAT 100 AGCGAAGATG ACAATAACCC CTTGACTCTT CACGAAAACT CGATGAGAGA 150 35 GARACTTGAA AAGTCAGAAA ATAAGTTCAT ACCGCAATTA ACCTTTTGGT 200 CAAGTAATGG AAACTTTTGA CTACTAGTGT AAGTCAAAAG ACAAAGGACT 250 CCAGCAAGAT GAGAGATTTC TCTATTTTGT AACGAGTAGT CCACCGATCG 300 40 TCATCAAAGA GAGAGAATGA ACAACTACGA AAGTTTAAGG GAAAAAAAAA 350

554

	AAAAAACATA GATGTT	366
	(2) INFORMATION FOR SEQ ID :1091:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 305 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1091:	
15	GGTCTGAATC ATGAAAAAGC CCATAAGAGA GATACAGTGA CTCCAGTTTC	50
	AATCATATTA CAGGAGATGA ATCTGTTGCT CTCCCATTTT GCTCTTGTCA	100
20	CACCATATGA AGACATCAAA AAACACTTAA GGATTCGAGA AAGAGAACAT	150
	CTTTTGTTAA AGAAGAGAAT AAGATTTTGG AAGAAAAAGT AATAGCAAAT	200
	TTGAAGAAGA AACAAGTTAC GTAGGGACGA GAACAAGTAA ATAAGGCCTA	250
25	TCATGCATAT CGAGAGGTTT ACATTGATAG AGATAATTTG AAGAGCAAAT	300
	GGACA	305
30	(2) INFORMATION FOR SEQ ID :1092:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1092:	
40	(x1) SEQUENCE DESCRIPTION: SEQ ID :1032:	

AAATGGAAGT TGAACTGAGT GTGGTTTCCA GTACAGGGCA TCTGGCCACC

555

	TTCACCTCAG TAAATACTGC TGATCGACTC TCTCTGGCTC TGGCTGTCCT	100
	GCCAGAGACA GCCAAACACA GGAGACATGA CAAATTACTA TCATCTTTTG	150
5	CTTCTTTATT TTTATTATTA TTATTTTTCT TTTTGTGGAG AACAGCGTCT	200
	TGCTGTATTG CCCAGCCTGA TCTCAAACTC CTGGGCG	237
	(2) INFORMATION FOR SEQ ID :1093:	
10	A CONTRACT OF THE CONTRACT OF	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs	
	(A) LENGTH: 420 base parts (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	• •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1093:	
20		
	AGAAATTTAT TGCCTCACAG TTCTGGAGCC TGGAAGTGCA ATATCAAGGT	50
	GGAGACAGGG TTGGTTTCCT CTGGAGGCCA TAATGAAAGC ATCTGTTCCA	100
	CONGRESS TOOTTOOL CONGRESS CON	
25	GGTCTCTGTC CTTGGCTTGT AGAAACACGC ATTCTTCTGG TGGATCCACA	150
	CAGTOTTOTO CATGTGTATO CTTCCTTCAG TTTCCCTTAT AGGACACCAG	200
	COMPANY OF THE PROPERTY OF THE	250
20	TGATGTCAGA TTAGGGATCG AACCCAACAA CCTCATTTGA AGTTACTCAC	250
30	CTGTTTGAAA ACCCTATGTC CAAATACAGT TATAGTGTAA GGAACTAGGA	300
	CTTAGGGCTT ACAAATATGG AGTGGGGCAT CATCCAGACC ATACCATTTA	350
35	AATTGCAGGG TTTCTCTCCA ATGTGAGTTA CATACACACA TTAAGGTTTG	400
		420
	TGGGATTCAG AAAGGTATAC	420
	(2) INFORMATION FOR SEQ ID :1094:	
40	(2) 2012000000000000000000000000000000000	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 192 base pairs

556

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1094:	
	GTTTCTTGGG TAACCTCCCC TCCTTAATCC TTCTGGCATA GGCAGACTCA	50
10	CAGCAGGTAC CCAGTAGAAG GTAAGGTGGC TGATCATTTT TCCATAGGAG	100
	GTCTCCATGG CACACAGGGT AGAAAGTGCA TTCTGTGAAT TAGAGGCAGC	150
15	AGAGCATGGC AGCTAATGGA AACTGGCTCT GGGAGGTCAA AT	192
	(2) INFORMATION FOR SEQ ID :1095:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1095:	
20	AGAGAGCTTA ATAAGACCTA ACTACAGGCA AACCTGACTG GAACGTGAGT	50
30	ATCTGTGGTC TGGTGTGGAA ATAGCTCTCT AGCCCCATCT CCCTCCCC	100
-	ATTGTCCACC CCCATCCTCC TTACCACGAA ACACATTTTT CACCAGCATT	150
35	GCCAAACCAC TTGGGATTCC TGCGCATGGC TTTGCTTAGT TTGCTCTTCT	200
	GCTTCTTGGA TACCTCCTTC AGGAAATC	228
40	(2) INFORMATION FOR SEQ ID :1096:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 198 base pairs

557

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1096:	÷
10	ATTTTTTATG GAAAAAGGGG GATAATGCAA AATAGCAAAA ATTGTAAACA	50
10	AAGTTAAAGA TTATCTTCAT CTAAACCTTA AGCTGACAAT TTAAAACACC	100
	TTGTGCATAA TGCAGAAAAA AACTGTCCGT TTGACTTCAC TTTCATTCAC	150
15	ACTGCTCCCT ACGCATGAGA AAGACCAGAT GTCTGGTTTC AGAGTATT	198
	(2) INFORMATION FOR SEQ ID :1097:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1097:	
30	TAGAGAGAG TTGATATATG AAGATAGGGT GGACAGGACT GTGAAGGAGG	50
	CTGAAGAAA ACTGACTGAA GTGTCACAGT TTTTTTCTAC AAAACTGTGA	100
	CACTTCAGTC AGTTTTTC	118
35	(2) INFORMATION FOR SEQ ID :1098:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

558

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1098:	
_	AAAACTGACT AAAGTCANTG TGTAATACGA AAACCGAACA CTCCAGCAGT	50
5	CCTATTTAT NTNTTCCAAC CTAGNNCACC CAGGTGACGC NNGGGACTCG	100
	TCNCAGGTGT TTNGNACTTG CCGCCCGACN GGCNAAGG	138
10	(2) INFORMATION FOR SEQ ID :1099:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
••		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1099:	
	ACTCCACCAC TGGGNCCGCC ATGTTTTGGG TNGGNGCAAT GCGCTGTCTG	50
25	TGAGCGCCAN TCTAATTGTA TTNGGACTGC ACGGGTCCGT ACACTGACTG	100
23	ACACTGGGCT ACCTCGCCCG AAAATGNGAA CACCGCTCAA TATCGNTGCG	150
	G .	151
30	(2) INFORMATION FOR SEQ ID :1100:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1100:	

TAGCAATAGG CTATAACATA AGCCGAGGTA TAGGCTACAC TAGCTAGGTT

559

	CGTGTAAGTA CACTCTATAT TGGCACAACA TAAAATTAAC TAGTGACGCA	100
	TTTCTCAGAA TGCATCCCCA TCGTTAAGTG ACACAGACTG TCCCTCATAT	150
5	CACCGGAGGA CTGGNCCAGG ACCTCCTGGC GGCACCAAAA TCCACGAGCG	200
	c	201
	(2) INFORMATION FOR SEQ ID :1101:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1101:	
20	TAGCAATAGG CTATAACATA TACCGAGGTA TAGGCTACAC TAGCTAGGTT	50
	CGTGTAAGTA CACTCTATAT TAGCACAACG ATAAAATTAA CTAGTGATGC	100
25	ATTTTTCAGA ATGCATCCCC ATCGTTAAGT GACACATGAC TGTCCCTCAG	150
	TATCACTGGA GGACTGGGNC CAGGACCTGA CCTGGTGGTA CCAAAATCCA	200
30	TGAGGCNGNA AT	212
	(2) INFORMATION FOR SEQ ID :1102:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	·	

(xi) SEQUENCE DESCRIPTION: SEQ ID :1102:

	CGGTAGCAAT AGCTATAACA TATAGCCGAG GTATAGGCTA CACTAGCTAG	50
	GTTCGTGTAA GCACACTCTA TACNNGCACA ACATAAAATN AACTAGTGAT	100
5	GCATTICTCA GAATGCATCC CCATCGTNAA GNGACACATG ACTGTCCCTC	150
	AGTATTACTG NAGGACTGGN CCAGGACCTC CCTGGGGTAC CAAAATCCAN	200
10	GAGTGGAAAT TCCANCAT	218
10	(2) INFORMATION FOR SEQ ID :1103:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1103:	
	GTAGCAATAG GCTATAACAT ATACCGAGGT ATAGGCTACA CTAGCTAGGT	50
25	TCGTGTAAGT ACACTCTATA TTAGCACAAC GATAAAATTA ACTAGTGATG	100
	CATTTTCAG AATGCATCCC CATCGTTAAG TGACACATGA CTGTCCCTCA	150
30	GTATCACTGG AGGACTGGGN CCAGGACCTG ACCTGGTGGT ACCAAAATCC	200
30		
30	ATGAGCG	207
30	ATGAGCG (2) INFORMATION FOR SEQ ID :1104:	207
35		207
	(2) INFORMATION FOR SEQ ID :1104: (i) SEQUENCE CHARACTERISTICS:	207
	(2) INFORMATION FOR SEQ ID :1104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs	207
	(2) INFORMATION FOR SEQ ID :1104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid	207
	(2) INFORMATION FOR SEQ ID :1104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs	207

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1104:	
	GGCGTCAAGT GGCCCAATCT AACAGCTCCA GGGTAGCCAC AACCATCGTG	50
5	ATGGATTGCC ATTATTGTGT GCTAGTGGCT AGAGGTAGAC CCAATAGAAC	100
	TCTGCCCCAA CAGGGCAACA GCCAAGCTCA ATTCTCCAAG CCCCCTGAAC	150
10	AGACCTTCCA CATCCAGGAG AAGCTGTTGT TGTCTAGAGC TACTTAGTGT	200
10	CAGAATCCAG GCCAGCTTGG CTGCTTGATG CGACTGGCTA TAGGATTNGN	250
	GTGNAGGCC	259
15	(2) INFORMATION FOR SEQ ID :1105:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1105:	
	ACATGACCCC TTGGACTGAA GGCGCTCAGT AGTAAAGGAG TGTCATGCAG	50
30	GTCAACACAT GTCGCACATG GACCACAAAG CCTGCCACCA GCAGGATGCA	100
30	CGGGGACTTC TGGGAGGGG TGGACAGGAT ACTTATCTGT GACTGGAATG	150
	CAGGCGAGAG GCGGAGAAGA GAGTGAAGGA TAACTCATAG AGGGGGCAGC	200
35	ATTTGTTTCG NGTTGAAAGA GGCAGAAAAT	230
	(2) INFORMATION FOR SEQ ID :1106:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 163 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

562

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1106:	
	ACATGNCCTG GACTGAAGGT GCTCAGTTAG TAAGGGAGTG TCATGCAGGT	50
10	CAACACACGT CGCACATGGA CCACAAATGC CTGCCACCAC AGGATGCACA	100
10	GGACTTTTGG GGGGAGTGGA CAGGTATTAT TGNGACTGGT GAGGTGAGAG	150
	GTNAGAGGGG GCT	163
15	(2) INFORMATION FOR SEQ ID :1107:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1107:	
	ACNTGATGAT TGCCATTATT GTGTGCTAGT GGCTAGAGGT AGACCCAATA	50
30	GAACTCTGCC CCAACAGGGC AACAGCCAAG CTCAATTCTC CAAGCCCCCT	100
,	GAACAGACCT TCCACATCCA GGAGAAGCTG TTGTTGTCTA GAGCTACTTA	150
	GTGTCAAATC CAGGCCAGCT TGGCTGCTTG AT	182
35	(2) INFORMATION FOR SEQ ID :1108:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 214 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

563

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1108:	
_	CCCCTGGACT GAAGGCGCTC AGTAGTAAAG AGTGTCATGC AGGTCAACAC	50
5	ATGTCGCACA TGGACCACAA AGCCTGCCAC CAGCAGGATG CACGGGGACT	100
	TCTGGGAGGG GAGTGGACAG GATACTATCT GTGACTGGAA TGCAGGCGAG	150
10	AGGCGGAGAA GAGAGTGAAG GATAACTCAT AGAGGGGGCA GCATTTGTTT	200
	CGNGCCTTGA AAGA	214
	(2) INFORMATION FOR SEQ ID :1109:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 133 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
2 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1109:	
25	ACATGGCCCC TGGACTGAAG GTGCTCAGTT AGTAAGGGAG TGTCATGCAG	50
	GTCAACACAC GTCGCACATG GACCACAAAT GCCTGCCACC AGCAGGATGC	100
30	ACAGGACTTT TGGGGGGGT GGACAGGTAT TAT	133
	(2) INFORMATION FOR SEQ ID :1110:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :1110:

•	GCATGACCCC ATGGCACTGA AGGTGCTCAG GTTAGTAAGG GAGTGTCATG	50
	CAGGTCAACA CATGTCGCAC ATGGACCACA AATGCCTGCC ACCAGCAGGA	100
5	TGCACGGGG ACTTCTGGGA GGAGAGTGCA TAGGATACTT GTCTGTGACT	150
	GGAATG	156
••	(2) INFORMATION FOR SEQ ID :1111:	
10	ALL SPOURNOR OUR RECOVERED CONTACT	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 282 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(0) 00000000000000000000000000000000000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1111:	
20		
	GGCGCTCANT GGATCCAATA CACCAGACTC CCGGGAGCGA AAACGCCCGC	50
	100m000m01	100
	AGGTGCCTCA AAGAACTTAA AACAGAACTG CCATTAGACC CCACAATCTC	100
25	ATNAAGGATG TTATAGATAT ATCCAAAAGA AAATAAATCA TTCTTCAAAA	150
		130
	AGACACATAC ACTAACACGT TCATGGAGCA CTATTCACAC AGCAAAGACT	200
	CGATCAACTC ACACACTCAT GAATGCGGAT CGAAATAGAA GATGTGGTAT	250
30		
	GCATACACCA CGAAATACTA CGAGCCATAA AA	282
	(2) INFORMATION FOR SEQ ID :1112:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1112:	
	TAATTAGTTT AACCACTGTG GAAAGCGTTG TAGGGTCTCA AAGACTNAAA	50
5	ACAGAACTGC TTAGACCCCA CAATNTTANG AGCGGATGTT ATGATATATT	100
	CAAAAGGAAA TAAANNGNCN TGTNAAAGAC CATACACNAT NGTCCATCGG	150
10	AGCCCGTATN CACGCAGCTT GTCATAACTA T	181
10	(2) INFORMATION FOR SEQ ID :1113:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1113:	
	ATCCAATGAC ACCAGACTCC CGGGAGCGAA ACGCCCGCAG GTGCTCAAAG	50
25	AACTTAAAAC AGAACTGCCA TTAGACCCCA CAATCTCATN AAGGATGTTA	100
	TAGATATATC CAAAAGAAAA TAAATCATTC TTCAAAAAGA CACATACACT	150
30	AACACGTTCA TGGAGCACTA TTCACACAGC AAAGACTCGA TCAACTCACA	200
30	CACTCATGAA TGCGGATCGA AATAGAAGAT GTGGTATGCA TACACCACGA	250
	AATACTACGA GCCATAAAAG GCGAAATC	278
35	(2) INFORMATION FOR SEQ ID :1114:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

566

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1114:	
	ACCTGCAAAC TTTTTCTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
5	TGAGCCATAC AGTTTTTGTT GCAACTAGTC AACTCTCAAC TNACGTGGAC	100
	AGCATGTAAA GAACGAGAGT GACTG	125
10	(2) INFORMATION FOR SEQ ID :1115:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1115: GTAGCGACCG GCGCTCATGG AATTCCGGGA CCTGCAAACT TTTTTGAAAG	50
25	ACCAGATAGT AAGTATTTTA TGCTTTGTGA GCCATACAGT TTTTGTGCAA	100
25	CTAGTCAACT CTCAACTCAC CGTGGACAGC ATGTAAATGG ATGGGAGTGG	150
	CTGCCGG	157
30	(2) INFORMATION FOR SEQ ID :1116:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1116:	

CCTGCAAACT TTTTCTGTAA AGACCAGATA GTAAGTATTT TATGCTTTGT

	GAGCCATACA GTTTTTGTTG CAACTAGTCA ACTCTCAACT NACGTGGACA	100
	GCATGTAAAG AACGAGAGTG ACT	123
5	(2) INFORMATION FOR SEQ ID :1117:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1117:	
	ACCTGCAAAC TTTTTTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
20	TGAGCCATAC AGTTTTTGTG CAACTAGTCA ACTCTCAACT CACCGTGGAC	100
	AGCATGTAAA TGGATGGGAG TGGCT	125
	(2) INFORMATION FOR SEQ ID :1118:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1118:	
35	ACCTGCAAAC TTTTTCTGTA AAGGACCAGA TAGTAAGTAT TTTATGCTTT	50
	GTGAGCCATA CAGTTTTCGT TGCAACTAGT CAACTCTCAA CTTCACCGTG	100
40	GACAGCATGT AAATGGATGG GAGTG	125
	(2) INFORMATION FOR SEO ID :1119:	

(A) LENGTH: 148 base pairs

568

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
,5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1119:	
10	ATTAAGCTTG ACACATCTGT GTTATCACGC ACTGAAGACA GGAAGCAGTT	50
	ATTANGETTG ACACATETGT GITATEAGGE ACTGAAGGACA GGAAGCAGTT	30
	CACTGAGTCA GCTGGCTTCC AAGCTTACAC AGAAGGCGAT AAGTCACTAT	100
15	CAAAGAGCCA ATGAGAATCT TCTTATAGAA TAACCTGGGC CCAAGTGA	148
	(2) INFORMATION FOR SEQ ID :1120:	
	C. CECHENGE CHARACTERISTICS.	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1120:	
	AGAATAACAG AGCCAAAGGA CTAATAAAAT CAATGAATCN TGGTGAGACT	50
30		50
	AATCAAGAAA AAATAGCACC AACAACAATG AGGAGAAAAT GGAAAAAAGGG	100
	·	
	CAGAGTATTT CAA. GATTAC GAGAGGGCAA ACCAATCAAC GAATGATTCT	150
35	TAAGCCTTCA GTTTGCCCTG TAAGCAAACT GAAGACGTGC AAGTCATCCT	200
	TTGCCCTGGG AGAGTTAACT TAACCCACAG GGACAACTEG	240
	1100001000 ASAUTIANUT TANGGUNGA GOMGAN. F.S	240
	(2) INFORMATION FOR SEQ ID :1121:	
40 .		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	

569

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1121:	
10	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AAGAATCCTG	50
10	GTGAGACTAA TAAGAAAAAA TACACCAACA ACAATCCGAG AAAATGGAAA	100
	AAGGGCAGAG TATTTAATGA TACGAAGATG GGCAAACCAA TCAATGAATG	150
15	ATTTTTAAGC CTTCACGTCT GCCCTGTAAG CAAACTGAAG ACGTGCAAGT	200
	CATCCTTCGG CCCTGGAGAG TTAACGTTNC CCAAGGGGCA ATGAGAAGGG	250
20	ACAG	254
	(2) INFORMATION FOR SEQ ID :1122:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 253 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1122:	
	AAACGAGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TCAATGAATC	50
35	NTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT GAGGAGAAAA	100
	TGGAAAAAGG GCAGAGTATT TCAATGATTA CGGAGAGGGC AAACCAATCA	150
40 -	ACGAATGATT CTTAAGCCTT CACGTTTGCC CTGTAAGCAA ACTGAAGACG	200
••	TGCAAGTCAT CCTTTGCCCT GGGAGAGTTA ACTTAACCCA CAGGGACAAC	250

	GAG	253
	(2) INFORMATION FOR SEQ ID :1123:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1123:	
15	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AATGAATCCT	50
	GGTGAGACTA ATAAGAAAAA ATACACCAAC AACAATCCGA GAAAATGGAA	100
	AAAGGGCAGA GTATTTAATG ATACGAAGAT GGGCAAACCA ATCAATGAAT	150
20	GATTTTTAAG CCTTCACGTC TGCCCTGTAA GCAAACTGAA GACGTGCAAG	200
	TCATCCTTTG	210
25	(2) INFORMATION FOR SEQ ID :1124:	
•	'(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1124:	
	AAATGGGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TTAATGAATC	50
40	CTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT CAAGAGAAAA	100
40	TGGAAAAAGG GCAGAGTATT TAAATGATTA CGGAGACGGG CAAACCAATC	150

571

WO 94/01548

•	AACGAATGAT TCTTAAGCCT TCATGTTTGC CCTGTAAGCA AACTGAAGAC	200
	GTGCAAGTCA TCCTTTGGAC CCTGGGAGAG T	231
5	(2) INFORMATION FOR SEQ ID :1125:	
		. •
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
13	(xi) SEQUENCE DESCRIPTION: SEQ ID :1125:	
	AAGTCCCATC AGCAACCCGT TTTTTACCAG ATGTCACTCA AGAATGCGCC	50
20	CGTGGCCCTC CAGTTCCTGC GCACTAAGAG CGTCCCGCT	89
	(2) INFORMATION FOR SEQ ID :1126:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1126:	
	AAGAAACCCG AGACMCCAAC TAATCCCAGA ACAGCTAAAA CCAATAAAGA	50
35	ACCAAAACTT CACGACCACT TTCCTGAGGA CCCTGCTGAG TGCTCATGAC	100
	ACCARTACTG ACARTTGTAG CGGTARTACA TACARTGATT TARTARGCCT	150
40	ATGCTACTGG ACACATGCCC ACACAATAAT ANTCANRTGT NTYGTTAGGC	200
	CTACT	205

	(2) INFORMATION FOR SEQ ID :1127.	
	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 151 base pairs	
5 ·	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1127:	
	GCAAGGCCTG GCCGACAACA CCCTTATTGC TAAAGTAAAT AATGNCGCGC	50
15	GGGGCCTGGA CCACCCTCTG GAAGAAGATT GTACCTTGGA GCTTCTCAAG	100
	TCTGAGGATG AGGAAGCTCA GGCAGTGTAT TGGCGCTTTA GTATCACATA	150
	TOTOMOGNIO MOSIMICOTOM COMPANIA CONTRACTOR COMPANIA	
	A	151
20		
	(2) INFORMATION FOR SEQ ID :1128:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 237 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(x1) SEQUENCE DESCRIPTION: SEQ ID :1128:	
	GAGCACCCA GCCCATAACA CAGAACTCGT CCCCCTACCC CCCTCAGCAA	50
35	GCCGGAGAGG CTAGCCCAAG TAATCATAAY AACAGCCGCC CGAGAGCAGC	100
	CCCAGTAGCA GCCCCATGGC CGGGCGGAAC ACCTACATCG ACAACCTCAT	150
	CARACACA ACOMOGONOS ACCONTRA MOCOCOCOMOS ARCCOCOMOS	200
40	GACAGACGAG ACCTGCCAGG ACGCAGCCAT TGCGGGCTGC AAGGCCTCRC	200
70	CCTTCGTCTG GGCCGCCGTC CCCGGAGAAA CGCTCGT	237

•	(2) INFORMATION FOR SEQ ID :1129:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toroboot. Timear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1129:	
	GCCTCGTGGA AGTGACATAG CCTTTAAACC CTGCGTGGCA ATCCCTGACG	50
15	CACCACGTGA CGCCCAGGAA AGACAGGGCG ACCTGGAAGT CCAACTACTT	100
	CCTTAAGATC ATCCAACTAT AGGATG	126
20	(2) INFORMATION FOR SEQ ID :1130:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1130:	
	GCCATCTTCT GTAACAAAAT AAATAGTGTC AAGCACTAAA TATATGCATG	50
	AATGCATCAG CAATAAGATG ACAATCAAAG AATGCTGTGA AGATTGGCAT	100
35	CAAGATGTTA GCAGCATACT GCAGGACTAG GCTTAGAAGC CTACCTGCAG	150
	TTTATTTGCA AGGATTTTTC TTTCGRGGGC GGAGGGGAGA GAAAAGTAAA	200
40	TGTGCTAACT TCGGATACTT GCCCTTATAA AGAATTCCTT YGTATC	246

(2) INFORMATION FOR SEQ ID :1131:

574

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 273 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1131:	
10	CGAGGATCCG GGTACCATGG CAAGTCTCAT GAGGCTATTT ACCGAATTTA	50
	CGAGGAICCG GGIACCAIGG CANGICICAL GAGGCIAITI ACCULITI	
	TCCTCTGTCT GACCATGATT TTTTCCCTCA AATACAACCA CTCCTCGACT	100
15	TTTCACCCTC AAAGTATAAA AAGTATGAAA NATAAACAAG CTCTTGCACT	150
	· · · · · · · · · · · · · · · · · · ·	
	GTACACTTAG AAGTGTACAA TTAAAGCATT ATAGAGCTAT CTACACACCG	200
		250
20	ATAAATCCCA TCGAATCTTG AATAATCCAT CAATACGTAG AACGCAAGGG	250
20	TGCAGACAGA ACTAAAACCA ACT	213
	(2) INFORMATION FOR SEQ ID :1132:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 329 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1132:	
35	GAGGATCCGG GTACCATGGT CTGTATATCT GTGCTTCCAC TTCTCGGAGG	50
	TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG AGAATCCTAT TCAGTGCTCC	100
4.0	CTTAGACATT CTTCCAGGCA GGATCAAACT CAAAGGAAAA GGAATTTGTG	150
40	**************************************	200
	AAGCAAACCA TGGCTTTGTC ACAGTAAAGT AATTGTCACT CTCAACCCAG	200

•	AATGTGTGAA GCGCTGCAGG GAGAAGCTTC TCTTCCAGGA GAGCAATANA	250
	AGCCAATGTA TCTGACCCTT GCTTYGATGA GAGTTAATAA TAAGTATTAT	300
5	ATTTCTGTTT GTTAAAAAGT TCAGAATTT	329
	(2) INFORMATION FOR SEQ ID :1133:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1133:	
	CCCCGAGCTA GTTGTCCCGA CCTG	24
20	(2) INFORMATION FOR SEQ ID :1134:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1134:	
	GAGGATCCAC AAACCATGGA ACACTCTCGC GGCTGCCACT CCCCCATGAC	50
35	CACCCTACAG GCCCTAACCC CAGCCCCTCA CGTTATCGTC CAGCCACAAA	100
	TAGCTGCCGC CCTGAGATCT CCACCTCAGA CCCTCTCCCG AAGCCCACAG	150
	CGGCCCCTGC CGGGCACCCC AGCTTCCTCG CAGGCACCAA AAGCGCAGTT	200
40	CCAGGAATCT CTACCCTAGA GTGATCCGGC GCCAGTTGCC AGTTAAGGGA	250

	CCAAACCTCG CCAGAAGGCT TCTTTTCGGG TTGATCGCCA TCTATTY	297
	(2) INFORMATION FOR SEQ ID :1135:	
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1135:	
15	GCCGCTTTAC TGCTCAGTTC GGAGCTACCG CTTCGAAAGC AACAAAAAAG	50
	CNTTTGCAAA TGAAACGAGA TTGCTGAATT GCGTACACCG AGA	93
20	(2) INFORMATION FOR SEQ ID :1136:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 334 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1136:	
	CGAGGATCCG GGTACCATGG AGCTTCACAC GGGTCTTCTT GGTCTCAGGG	50
	TTGTGGGAGA TAACGGTGGC ATAGTTCCCT GATGCCCGGG CCAGCTTGCC	100
35	ACGGTCTCCA GGCTTCTCCT CCAGGCAGCA CACGATTGTA CCCTCAGGCA	150
	TGGTGCCCAC AGGGAGCRCA TTGCCAATGT TGAGCTGGGC CTTCTTGCCG	200
40	CAATACACAA ACTGGCCCGT GNGAATGCCC TCGCGGGCAA TGAACAGTTC	250
40	CGCCCGCTTC TTANACCANG ACAGATCCCG GANGGCCGCC TGGGCANGGG	300

	GCCCTCRAA CCCGGGGCTA TACACGTCAA AATC	334
	(2) INFORMATION FOR SEQ ID :1137:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1137:	
15	CGAGGATCCG CATACCATGG CCCCCATCTT ACGAGCCCTT ACTCCTCATG	50
	ATGAAGAAAC TCCAAACCCT TTGACAGCTC CTCGGGGTNA AACCTGGNAY	100
20	AAAGCTGACT GACCAGGCTC CATGAAATCT CCCATCTCCA TRATGTACCT	150
	CCTTGRTGCC ATCTCTATAT AAAGMGAACC AGTCCTAAAA TCAAACACT	199
	(2) INFORMATION FOR SEQ ID :1138:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1138:	
35	CGAGGATCCA AATACCATGG CGCTCCCTCC TCCCGAGCGC CGCTCCGCGT	50
	GGCACCCGGC TCGCTCCGAG TTTCAGGCTC GTGCTAAGCT AGCGCCGTCG	100
40	TCGTCTCCCT TCAGTCGCCA TCATGATTAT CTACCGGGAC CTCATCAGCC	150
	ACCOUNT TENENSOR TO ENGINEER OF THE TENENT TENENTARY	200

	TTGTGCCTGG AGGTGAAGGG GAAGATGATC AGTAGGACAG AAGGTAACAT	250
	TGMTGACTTG CTCATTGGTG GAAATGCTTC CTCTGAAGGC CCCGAGGAAG	300
5	AAGG	304
	(2) INFORMATION FOR SEQ ID :1139:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 277 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1139:	-
		5.0
	GAGGATCCGG GTACCATGAG AAACTTTGAA GCCAGAGATT TTAAACAATC	50
20		100
	AAGGCACTTG AAAACATTAA GTATATGTAC AAATGTGCAA GTAAAACAAA	100
	CAGCTGTACC AACGAGTAAC AAAGAAACAG TAAATCTTCA TCTTAACAAC	150
	CAGCIGIACC AACGAGIAAC AAAGAAAACAG IAAAIGIIGA IGIIMIGAMG	
25	CTTTAATAGT TATCTAAATG CAGAGTTTGT TTATGAAATG AACCAAAGCA	200
23	Olling in the second se	
	GTTTGTCATT TCTTACTATA AAATACCGAA AATAAAGTGC AAAACTTAGC	250
	CACTACTGGC TAAAGAAACT AAGTAAA	277
30	,	
	(2) INFORMATION FOR SEQ ID :1140:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1140:

	CGAGATCCGG GTACCATGGC CTCCTACAGG TGCCGTGGAG CCACGCCCAA	50
	AAGAGAGCTC CCTGAGAAAC TCGTTGATGC CTTGCTCACT GAAGGAGCCT	100
5	TTTAGCAGAG CAAATTTCAT CTTGCGTGCA TTGATGGCGG CCATGGCGGG	150
	GTACCCAAAC CCTCCAATTC CCAACGCGGT CTCAAGTTCA GACTGGGCTC	200
	CAGCTTCT	208
10	(2) INFORMATION FOR SEQ ID :1141:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 274 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	· .
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1141:	
	CGAGGATCCG AGTACCATGG CCTCGAACTG AGCATCAATA TATTCTACTG	50
25	CCAGCTTATA ACTGTCATCT TTATTCATAT GGTCTCCAAA TCCCACGATG	100
	TCAACAATGG TTAACTTCAG CCGTACATTG CTTTCCTGAA GCTCATAACT	150
20	TCTGGCTTTT AACCGAACAC CTGGTTCATT GTGAGTAGCT GGGTCACTTT	200
30	TAAATTTGGT GTTGAACAAA GTGTCCATTA ACGTGGATTT GCCAATGCCT	250
	GTCTCACCAA TACAAAGGAT GTTG	274
35	(2) INFORMATION FOR SEQ ID :1142:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(XI) SEQUENCE DESCRIPTION: SEQ ID :1142:	
5	GCCTGCACAT TGACTGTGGG AAACTCGGAA ACAAGCTCAC ATCTCCCCGT	50
J	GGGAAACCTT CTAGCAACAG GATGAGTCTG CAGTGAACTG CAGTTGCCAC	100
	CTTCCTCTAT GCGGAGGTCT TTGTTGTGTT GCTTCTCTGC ATTCCCTTCA	150
10	TTTCTCCTAA AAGATGGCAG AAGATTTTAA AGTCCCGGCT GATGGAGTTG	200
	TTAGTGTCCT ATGGTAACAC CTTCTT	226
15	(2) INFORMATION FOR SEQ ID :1143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1143:	
	RGGRTCCRNG TGCCRTGGGG YNTNNCTAGR CRGCRGGYAA GGTCCACCRC	50
	TGRCRCGNTG NCNGTGAGGR CRTGNRGGNC CRTGCGAGTG GGCTTACCGN	100
30	TAGGTTCGGG AATGACCTTG CYMACGNCNN YGACAGCTAA GTRGRNGCRG	150
	GNANGRIGNN GIGGAGRG	168
35	(2) INFORMATION FOR SEQ ID :1144:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOTOCY, lines	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1144:	
	CGAGGATCCA AATACCATGG AGCTGACAAT GTCAGCTCAA TTTGAAGTAT	50
5	TCTTGAGGGA CCTTTTGCTC ATAGGCTTTA ATTCTGTCTG TGACTTTTGC	100
	CAGGATTTGA GGAAATCGAC TGCCTTCACT CTTCCCTGAA ACTTTGAAGT	150
10	CCACATAAGG GCTTTCTCAT CAAATGGCAG AAATTATAAT TTATAAACCT	200
10	AAACAACCTT ATAGTGTTTT CGCTTTGAAT TGTATGAATT CTTAGAACTG	250
	AGAAGT	256
15	(2) INFORMATION FOR SEQ ID :1145:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(b) ToroLogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1145:	
25	(XI) SEQUENCE DESCRIPTION. SEQ ID .1143.	
	AAACACAAGG CTAAAAGTCA CTAAAGGTGA CACAGTACCA ACCCCGGGAA	50
	nanonomico cirillimotori cirillotto di dicinati di	
	GGTTGAGTTC TGTGCTGCTA CCTTCTACTG ATGGCGAATA GACTATTCTG	100
30		
	TACCCTGTGA TGGGAGCCTG GGGTCTGCTC CAGCAAACAA CAATCGAGGT	150
	GTAATCAACT TGGTCCACAG TCGGGTCAGG AGGG	184
•		
35	(2) INFORMATION FOR SEQ ID :1146:	
	(CROUENOE CUADACTEDICTICS	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs	
	(A) LENGTH: 221 base parts (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(b) Totoboot. Ifficat	

582

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1146:	
	CGAGGATCCG GGTACCATGG CCCAAAGAGT GAATGATGTA TCCCAGGGCG	50
5	CAGTCCACAA CTTGCGCAGT ACCTTCCCAG ATGACAGCCT CACTGGACCG	100
	ATTTCCATCC ACGAAGATGA TGCTAAGAAG CACCATGAGC AGACCCAGCT	150
10	TGGGTGAGTC CTTAGTCGTT CCCAGTATGC CTGCATCAGT GGGCTCTAAG	200
	GTGCTGAGAA GAATGCACAA G	221
	(2) INFORMATION FOR SEQ ID :1147:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1147:	
	CGAGGATCCA AATACCATGG GAGTCAAGCA TGCCTCGATA GCCACAGATT	50
	TACAAGAATT ACCTACAGTT TGCTTCTTNG AATCGACATG CAAATCTGCT	100
30	TAAGGATTCT CACATTCAGG ACAGAGAACA AATTTTTTAA TGAATCCATC	150
	CAACAGGTCT TGNAGTTTAT TCGCCTCATG AGATCCATTG ATAATGGAAC	200
35	RRIMATICIT AACANCAAAC NGMGMCTGNN NTCCCRNCIT ATAACCMAAA	250
	GATNT	255
	(2) INFORMATION FOR SEQ ID :1148:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230 base pairs(B) TYPE: nucleic acid

583

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5 (xi) SEQUENCE DESCRIPTION: SEQ ID :1148: CGAGGATCCA GGTACCATGG ACGATTCACA GCCCCTGGCC ACTGGCCATT 50 10 TCCAGTGGTA GGGAGCACAC TGRTCACATT CGAGACCCAC CACGTTGAGC 100 AGACAAAGGC AGCCTCCACT CTCCTCGTCA CTCAACATGT ACCTCCGTCC 150 CCCAGGATGT TGTAGTTATA GCAATAGCAG CCCTGCGGTT GACGTAGGTG 200 15 AGTCGGTGAC GCCCGATTTG GATCGGGTGT 230 (2) INFORMATION FOR SEQ ID :1149: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :1149: GTGCCGTTGG TCCTGTGCGG TCACTTAACC AAGATGCCTG AGGAAACCCA 30 50 GACCCAAGAC CAACCAATGG AGGAGGAGGA GGTTGAGACG TTCTCCTTTC 100 AGGCAGAAAT CGCCCAGTTG ATGTCATTGA TCATCAATAT TACCNACTAG 150 35 AACAAAGAGA TCTTTCTGAG AGAGCTTATT CAAAATACAT TAAATGTATT 200 GGACAAAATT CGATATAAAA GCT 223 (2) INFORMATION FOR SEQ ID :1150: 40 (i) SEQUENCE CHARACTERISTICS:

584

(A) LENGTH: 272 base pairs
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
_	(D) TOPOLOGY: linear	
5		
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1150:	
10	CGAGGATCCG AGCACCATGG AGAGACTATG ACGCTCAACA AGAATCACTC	50
	GGAGGGCGAC GGAGTGATCG TCAATAACAC CGAGATC CTAATGCCCT	100
• •	ATGATCACGT GGAACTAACA T. CAATGACA TGAAGAACGT GCCAGAAGCC	150
15	TTCAAAGAGA CCAAGAAAGG CGCTGTCTAC CTTACTTCTC ATTGAACCAT	200
	CTTTATGTCC AAGAACAAGG ATGCGATGGG TATTTCGTGA NGCTATTTGA	250
20	NMTRAGGRMA GNCTGNAAGG TM	272
	(2) INFORMATION FOR SEQ ID :1151:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 140 base pairs	
	(B) TYPE: numleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) loroLogi: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1151:	
	TGAGGATTTA TAGATTANAG CTAGAGTTCA CATTTTATGG ATTACAACCA	50
35	AAAAAAACCT GAAAAAGAAA AAAAACAAAA AAGCTCAAAA GCAATCACAA	100
	GGATAGTTGA ATCCCTCTTT AAACCCCCAA AGCAACCCCC	140
40	(2) INFORMATION FOR SEQ ID :1152:	
	(i) SEQUENCE CHARACTERISTICS:	

585

(A) LENGTH: 208 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1152:	
10	AAGGATCCGG GTACCATGTA TTCCCCCGGT ATCAGCAGAG GCGTGTACGG	50
	GCACTGCTTT AAAACTGGGA AGGAGGAAGA CGAGGCCAGG GAGCCGGAGG	100
15	GTCACCAAGG TAGATTTCCA GCAGCCTAGT CCAGCTGAAC GCTTTCCAGC	150
15	CTTGCTTTTT AGCAGCTTTG AGGAAAAGTA TAGTGATCCG GATGTGAAAC	200
	TTTCATTG	208
20	(2) INFORMATION FOR SEQ ID :1153:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	-	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1153:	
	CGAGGATCCA GGTACCATGG GGTGGATCCG CCGGGCATAG CCACCCTGGA	50
35	TGGTGGCCAT GGTGAGGCCG ATGAGGAAAA ACATCTTCCC CTGCTGTAGG	100
	CTACTGAACT GGAAGCGCTG GTGTGTGAGG AAGCTCAACG TGCACTCCAG	150
	GCCCAAGAAC AGGAAGAGT AGAGGAAGTA GACTMGGCCC AGGCGGCCAG	200
40	GCTGATGAAT TGTCTCCAAA GGGTGAGACC TGGCCACGAG CCATANCCCA	250
	GAMGCCNMAC AGGGCTRGGG ACTG	27

•	(2) INFORMATION FOR SEQ ID :1154:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1154:	
	GAGGATCCAC CGACCATGGA ACACTCTCAA TGGCTGCAAC CACCCGTGG	50
15	CCCCCCTACC AGCCCCAATC TCCAAACCCC GCACGTCGAT CATGACGCCA	100
	CCAACAGCTG CAGCCCCTGA GATCTTCACC TTAGACCCTC TCCCGAAGCC	150
	CGCAGCCGCC CCTGCGAACC CTCCAACTCG TTCACACGCG CCGAAAGCCT	200
20	ATTCCCAGGA CTCTCTGCCC CTACGTGACC GNCCCTAGCT GCTAGTCGAG	250
	AATCCGAACT CCGCTCC	267
25	(2) INFORMATION FOR SEQ ID :1155:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 231 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1155:	
	CTCAAACCCC GNTTCCCCCC TAATAAGAGC AACTAAAAAA CTTCTGATAA	50
40	CCACAATAAA AGCGTGCATT TGAGCACAAT TCAAAAGCCA ACCCCTTCGA	100
40	AGGNGCTTCT GATGNAAAAG GAGTTATGTT GAACGAAGCA GGAGTTAACG	150

	CTACACAGTC AAATTGTGGC ATTAGGACGC GCGAGCGGGC TAGCTGCGGC	200
	CGTCTANCAA GGCAACGGCC GCCTTTGAAT T	231
5	(2) INFORMATION FOR SEQ ID :1156:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1156:	
	GCGCGAGCAC AGAGCCTCGC CTTTGCCGAT CCGCCGCCCA TCCACACCTG	50
	CCGCCAGCTC ACCGTGTATG ATGATATCAC CNCGCTCGCC ACCAACRACG	100
20	GCTCYAACMT GTGCAAGGCC GCCTTCAA	128
	(2) INFORMATION FOR SEQ ID :1157:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1157:	
35	GCCGCAACAC AACCCAGGGA GACTCAAGNC CACAGGGGCC CCCCGGCTCT	50
	GAGGGATTCA CCGTCGCCTC CCGGTCCCCG AAGGCCCACA AGGGCAGAAA	100
40	GGTGAGCCTT ATGCACTGCC TAAAGA	126
40	(2) INFORMATION FOR SEQ ID :1158:	

588

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1158:	
10		
	AATAACCATA ACTGCAAAAA CCCAAMCAAA AAAAAAGGGG GAACAAAAAA	50
	COCCALLACOR COLABANANO CACANANANO CACANANANA ANCOCCOMOCOM	100
	CCCCALACCO CCARARARAC CAGARARARC CACARARARA RACCCCTCCT	100
15	T.	101
	-	101
	(2) INFORMATION FOR SEQ ID :1159:	
	•	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	() CRAVENCE RECORDERION, CRO ID .1150.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1159:	
	GAGGATCCGG GTACGGGCAG GGTGAGAGCC TGGGGTCCAC CGATAACCGG	50
30		-
	GAGGGAGATG GCGTTCTTGA GCAGAGGGGA TGGGCCGTCC GGGAGCTCCC	100
	CCCACACACG GTGGCGGTGC GGGTGAACTG GAAGGGGAGG TCGAAGGTGC	150
35	CATCITCTIC AGGCCCCTCC AC	172
	(2) INFORMATION FOR SEQ ID :1160:	
	(i) CROUPINGE CUADAGEDITATAG	
40	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 235 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

589

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1160:	
	GAGGATCCAC ATACCATGGA ACAGCACCAC AAAAATAGCC ATTTTGATCA	50
	TGGTTATTTC CCAGGACCAC ACGATTTGCC TACGTCACTG GAAGGCTATG	100
10	TGTCTGTTCT GAGCCTTCCC ACTCTCCTAA AGGGCAGATG AAGATCAGAG	150
	CTTTGACCCT GTGATGCCAT TTTAATCAAC CCTGCTTGGT TTTAGAGGAT	200
15	TGCTCCCGTG GGTCACTTGA GGCAGGCTCC ACCTT	235
	(2) INFORMATION FOR SEQ ID :1161:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1161:	
30	GAGGATCCAC CAACCATAGA AAGTAAATAC TGTATAAAAA GCTCCAGCTG	50
30	TTAGATACAA ATGCAAAACG CTTCCTAAAA AACGGCCTGA AAAAAAACTC	100
	ACAGACAATG CCAAACTTTA TAGGTCTGTA TTTTCCTTTA TACAAAATGC	150
35	CCTCAAATTA AAAAGTAATT CCCATATAGC AATAAAGTCC ACATCTCTGG	200
	ATTACCTATA ACCGGTATTA TGGGGTGTGT TTATACTGCC TAGAATGTTA	250
40	ACCCTCATAA AGCCTTAAAA GTACATTTGT GAAA	284
70	AND THEORY AND THE CENT IN 1162.	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1162:	
10	GCTCACATAA ATTTCTTCAC CGACCCTTTT CCTTCCAGCT TCCTTACTAT	50
	AAAAAACCCC ACA AATA TGTTCATCAT CATCCATACT AACCAACCCC	100
15	GTCACCATCT CAATCAGCAG CAAGTCCTAC TCTCTGTGGG TGAAACCTTG	150
	TTACCACCTC TAGGGGCAGA CCCCTTTTCA GATATATTCA AGAGTTTAAT	200
20	ATCCTCCCAC TATAGCGCTT CGACTTTGTA TCTTCCTCTA TGGCTACCAA	250
	ATTCTGTCCG TTGATAAGTA CTGGCTCTAA ACCATGC	287
	(2) INFORMATION FOR SEQ ID :1163:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) Torologi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1163:	
35	GAGGATCCAA AAACCATAAA ATTCATCATC CCCAGCAGGT GCNCTAGCTA	50
	TACTITATIA CAGCAAARCA CAACCACAC CIGAMCIANM ICGIATAGAI	100
40	AAACACCAAT CATGGGTCGG CC	122
40	(2) INFORMATION FOR SEQ ID :1164:	

591

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1164:	
10	GCGCGGGTCT GTCTCTTGCT TCAACAGTGT TTGGACGGAA CAGATCCGGG	5
	GACTETETE CAGECTECGA CEGECETECG ATTNEETETE CAETTGCAAC	10
15	CTCCAAGACC ATCTTCTCGG CCATCTCCTG CTTCTGAAGC CT	14:
	(2) INFORMATION FOR SEQ ID :1165:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1165:	
30	TATTCCCCCG GTATCAGCAG AGGCGTGTAC GGGCACTGCT TTAAAACTGG	5
	GAAGGAGGAA GACGAGGCCA GGGAGCCGGA GGGTCACCAA GGTAGATTTC	100
	CAGCAGCCCT AGTCCAGCTG AACACTTTCC AGCCTTGCTT TTCAGCAGCT	15
35	TTGAGGAAAA GTATAGTGAT CCGTATGTGA AATTTTCATC GCACGTAGCG	20
	GATGAGAATA GAGAACTCA	21
4Ó	(2) INFORMATION FOR SEQ ID :1166:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	

592

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
_		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1166:	
10	GAGGATCCAC CAACCATAGA AAGGAAACAA CACTTGGAGT GAACCCGACC	50
	CAAGCCACTA CACCCCAGCC TAACCGACAG GTGCTAGACT AATNGTNAAA	100
	AACAACCGGA AAATAGACCC GGACGAAGAT CAAAGNTTNT CAATCCAAAC	150
15	ATTTTAGGG GACCAAGACC CMGGGATCAA AAACAAGGTC CACCACACCC	200
	·	
	AA	202
	(2) INFORMATION FOR SEQ ID :1167:	
20	(2) 1110111110111011011011	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1167:	
30		
	GAGAAACCTA CCCAACCAAG AGGCGCCCTG CTTTGTAATG ACCTTTACGA	50
	AGACACGTCT GATACCCAAC CTGACAGAGG AAACAACAGT AGTCTGAAAG	100
35	GGACAGAATG AGAGAGGGG CTGGAGAAAG AAATGAATAA ACATGAATGC	150
	ATCTGGAGA	159
		207
	(2) INFORMATION FOR SEQ ID :1168:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211 base pairs

•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1168:	
10	CCCTAGACAA GCCACCTGAG GAGAGGCTCG GAGCCGGGCC CGGACCCCGG	50
10	CGATTGCCAC CGCTTCTCTC TAGTCTCACG AGGGGTTTCC CGCCTCGCAC	100
•	CCCCACCTCT GGACTTGCCT TTCCTTCTCT TCTCCGCGTG TGGAGGGAGC	150
15	CAGCGCTTAG GTCGGAGCGA GCCTGGGGCC ACCGCCGTGA AGACATCGCG	200
	GGGACCGATT C	21:
20	(2) INFORMATION FOR SEQ ID :1169:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1169:	
30	GGATTTCCGG TCCTGGCTTT CTGATATTTC TAAAATCGAC CTGGAATCAA	50
	CCATTGACAT GTCCTGTGCT AAATATGAAT TCACTGATGC CCTGCTGTGC	100
35	CATGATGATG AGCTGGAAGG GCGCCGGATT GCCTTCATCC TGTACCTGGT	15
	TCCTCCCTGG GACAGGAGCA TGGGTGGTAC CCTGGACCTG TACAGCATTG	20
40	ATGAACACTT T	21
	(2) INFORMATION FOR SEQ ID :1170:	

·	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1170:	
10	(X1) SEQUENCE DESCRIPTION. SEQ ID .1170.	•,
10	GAGGATCCGC GCAACCATAG AACTCACAAC CCAGCCATAT ACCTCAGACA	50
	CAATGGAATG GGCGGAGGTC GAGGTNGACA AACCCTGAGT AATGTTGGGC	100
15	ACTTCCGCAC CGGAGCTGTT CTTACCTTTG ATAAAGTGGA TGTTATTGCT	150
	ATTANTGATC TCTTAACGGA CTTCAACTGT AAAATTNGCA TGATCTAGTC	200
	ATTANTONIC TOTTANCOGN CITCANCIST ANANTINGCA TONICIAGIC	200
	CTATCCACCA ACGNCGAACA ATATGCTGTT GCCAMGATTG AGCACGAGCC	250
20		
	GTTTGGGCTC AACGGC	266
	(2) INFORMATION FOR SEQ ID :1171:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1171:	
	(XI) SECONDE SESONITION. SEC ID .II/I.	
35	GGCACAACCC ACTTTGAACA ATCATGCTTC AGAAATCTGC CTGACCTTAG	50
	CTGCTGCTGC TGCTCACTTT ATTATAGTAT AACTTCGGTA GGCATACTTG	100
	GAGAACATAT CCCACATTAG GAATTGATTT AAGCCTGAGA GTTTGAGGGC	150
40	TTTAATCCTT TAAAACT	167
	IIIANICCII INAAACI	10/

595

(2) INFORMATION FOR SEQ ID :1172:

	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1172:	
	AND	5.0
	AATAAACCTC CCTATCACAG TGACCTACTA CCCGCGTGTG CTTATATAAC	50
	TAATCCAGGA CAACCCACAA AAATTATAGC AACACACAAA CACACCGCTG	100
15	TAATCCAGGA CAACCCACAA AAATTATAGC AACACACAAA CACACCGCTG	100
	ACCATAACAT GTGCGTCTTT CAAAGATGCC TTATCAACCA GAGCGATGAT	150
	ACCATARCAL GIGGIOTTI GIRROLIGO ELIZOLIGO. GIGGIOTTI	
	TACTGAGGAT ACGCAACTCA TAAAACTCTA CTTAAAGCAA CAGGGCAGAC	200
20		
	GTGCGTCTGT GCCAGTCGTG AATGTGGTGA AC	232
	(2) INFORMATION FOR SEQ ID :1173:	
. =	•	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(D) TOPOLOGI: IIMear	
30		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1173:	
35	GAGGATCCAC CAACCATAGC CCGAAAATGT GGTAAGGGAC CCTCATCTAT	50
	CACACAACNC AGGTAAGAAG GCACCCAGCC CCATGGGCCA TAC	93
	(2) INFORMATION FOR SEQ ID :1174:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
.5	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1174:	
	GCCTTTTTTT ACCCGCCGGA AGCTACAGCT TTTGCCCCCC CAAAAAAACC	50
10	CCACCCTTTT ACCCACCGCG GACCCAAAAA CAGCAAAAAC CAAGGACCTC	100
	TCCCAACCC AACCCCTCCT TTTTGGCCCT TCCTTCCCCC CCTCCCAGCC	150
15	CACCCCAGA CACCTCAATC CCCCAAAAGG ATGCCCTAAA CCTCTCCTAA	200
	(2) INFORMATION FOR SEQ ID :1175:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOBOSI: III.lear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1175:	
	GAGGATCCAA AAACCATGGC ATTCATCACG CCCAGCAGGT GTCCCAGCCA	50
30	TGACTTACCA TAGCAAAACA CAACCACACA CTAACCTGCA TCGCCTAGCT	100
	TACTGATGAT GATGTCCTGG T	121
35	(2) INFORMATION FOR SEQ ID :1176:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 26 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

100

144

40

597

(xi) SEQUENCE DESCRIPTION: SEQ ID :1176: 26 AACCAGACAC GCCGACCCGC TGAATC 5 (2) INFORMATION FOR SEQ ID :1177: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid 10 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 15 (xi) SEQUENCE DESCRIPTION: SEQ ID :1177: GAATCGATCT TGACCTGGCT GCCAGGAATA TCCAGCTTGT TACCGACTGG TAAAGAATAA GACCGCTGAT CATAGAGTGA AGCTCCAGGA ATCAGAGAGT 100 20 CTCATAGCAA ACCTCGAAAC TGAGGATGAG ATGGTTACAG ATAAAGCCTT 150 178 TCAGGATGGA TTMAAGNAMG CAGAGAGG 25 (2) INFORMATION FOR SEQ ID :1178: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid 30 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (xi) SEQUENCE DESCRIPTION: SEQ ID :1178: GGTTAAGTTT TTCATCAAAG ACTCAGGTAC CTATTATCGT TCCCTGGCGA

AACTGAGGAG AAAAGTTAAT CAACCAGGTT ACTCCCACAG TTTGCCCGTG

TGTTATGCAT CAGTTATACA GGTATCCCAC CAAGTTCAAG TCAA

	(2) INFORMATION FOR SEQ ID :1179:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 233 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1179:	
	GACCAGGGAG GAGGTTTAAT CAACTTGGAC CCCCTCCGGC CTAGCCGCCG	50
15	AGGAGGTGCA TTCGGGACAA CCACTAGGTC AGAACGCAGC CTCTCCAGAG	100
	TCCTCAGGCT CGACAACGAT TATCCTGCTG CTATCACGCT TTGATTTACT	150
20	GATCTCGCTG AAAAGACAGA CGCTTTTAGA TACCGAGTCG ATAGGGGGTC	200
20	TGCGGTACTT TTCAGTAGAT AGGTGGTGCT TGT	233
	(2) INFORMATION FOR SEQ ID :1180:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 225 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1180:	
35	CGAGGATCCG GGTACCATGG GCCGGATACA ACGAGCTATC ATTACTGCTC	50
	CCATGGCCAA AACCAGCAGT CCCACAATCC CCGTGAAAGG GATGAGGTAA	100
40	TAGCCCAAGG GGAAGGTATT GTCTGGAACC AGAAGCGCCC GAGCCCCCTT	150
40	CONTENTACION ARCACCOCCO CONCENTOR CONCENTRAL MECCANAMIA	000

WO 94/01548

	AGGIAGACGG GACCAAGATC TGCTG	225
	(2) INFORMATION FOR SEQ ID :1181:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1181:	
15	TGAGGATTTA AAAATTCTGG AATATCTATG ATTGATCGTC AACTTTATTC	50
		30
	GATGAATAAG CTTGATGTGG CCTAGTTTTN NGNNNNNTGG NYATGGTNNA	100
	TCNNNTTANT TTTTTGGTTG TTGTGNATAT TATNGAATAR AMGAATRGNG	150
20	TTTAGAGTTT GGAAGCGGCN RNGCGTARMG NNACTCYACG CTCGCNNCTN	200
	·	. 200
	TTGNNNNACA GMRGGNTCTC TNGGRTGAGT GGRTNCMGTT GGMGGNNTCN	250
25	NNNTAGCTGN NGNGAGRATC AGCTRGCTTN CTTTGNGCTN GCT	293
	(2) INFORMATION FOR SEQ ID :1182:	
,	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1182:	
40	GAGGATCCGG GTACCATGGC TCTCTCTTC TTTTTTTTCT TTTTCTTGGC	50
40	GGATGTGAGA GCTGCCTGAG ATTCAAGGTC ATCCGGCAGC TCAGTCCCCA	100

•	CCACCTCTGT CTCTGGCTCC ACTGTGGCAT CTTGCTGTTT TTCTTTCTCA	150
	GTCTTCTCTT AGGGAGCTGC CAGAGCTGCC TGGACCTGAG AATTCATTCC	200
5	TTCTGGCTGT TGAGACCCCG TGGACTCCCC TGGATTCCAG AGNNTNATTT	250
	NG	252
10	(2) INFORMATION FOR SEQ ID :1183:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1183: ACGAGGATCT GAATACTCTG GCCIGCAAGT AGAGGCTAAT TCGATGTGTG	50
	AAACTGTAGA TTCGGCTTAA GGTAATAGTC ATTTATAGAC TATTCAATAG	100
25	AGTCAGACTG GTCGAGGCTG GTAAGTGTAG CGGAACGGTT GCTGACTGAT	150
	ATTGTTAGAG TGAGGCTTGT ACTGGTGTGT ATCCGTAGGT GGTCTGCAGT	200
30	GT	202
	(2) INFORMATION FOR SEQ ID :1184:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 43 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1184:

	CAGATCCTCA GCTTTCGTGG TTCACAATTT CTTCAGTCTC TTA	43
	(2) INFORMATION FOR SEQ ID :1185:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 48 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1185:	
15	ACCETCCTTC TEGTTCATCC TAGCAAAAAT CTCACCATCT TCTATCAC	48
	(2) INFORMATION FOR SEQ ID :1186:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1186:	
	ACATCATCCG AGTCCCCTCT ACAGTGTTCA TTGTGATCGT TGCATCCCCC	50
30	·	
	TGGTTTGGAA ATAAAATATA AACTGCCCGG CAAGAGATAA AATTGTATTT	100
	TTTA	104
35	(2) INFORMATION FOR SEQ ID :1187:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1187:	
_	CTGGTTCTGT TTCTCGCAGG TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG	50
5	AGAATCCTAT TCAGTGCTCC CTTAGA	76
	(2) INFORMATION FOR SEQ ID :1188:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1188:	
20	AATAGGGCGC GATCAACTCT TAACTTTGAG GAGAACCAAC AA	42
	(2) INFORMATION FOR SEQ ID :1189:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(b) 101020011 11ncd1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1189:	
35	GGCGGACGTG CGCGCCTTGT CTTCGCGGCA CCTGGGCCTG AGGTGCGTGC	50
	CTCCCGGGCC CTCGCCAGCT CCAGATGCGT GAGGAGGACT TCAGAAACCC	100
	GACTGAGAAG TGGAGCAACC CCCAGGAAGG GCCGGACCTG CCTAAATGCC	150
40	GCCAAGGCCT TTTATTTATG GCTAGTTTGC TCTCGTGAAA TACTAACATC	200
	GTTTTAATGG CACTCATCAA GTACGCAAAT GATATGATTT AACCTCGCGC	250

	AAT	253
	(2) INFORMATION FOR SEQ ID :1190:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1190:	
15	GAGGATCCAC CAACCATAGA ACGGCCCTAC TAATGAACCA CACAAGCTAG	50
	TIGCACCACT ATAGAAACAC AAAACTACAC ATCTATACCA ATAAAAATAA	100
	CAACTACTCC AATTGCCCAT GTGGTATTGT CGCAGACTGA AATGAATTAT	150
20		130
	GAATTTAGGT TGGTTACCAA TATCGGCATA AAATAAACTR TGTAAGGCTC	200
	AMTATGTTGA CAGTAAGCTC TTGTCAGGTG TCTAATGAGG TAAAAGCATT	250
25	TT	250
	••	252
	(2) INFORMATION FOR SEQ ID :1191:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1191:	
	GAGGATCCAA CAACCATAGA GCACATAAAA ACCGCCCAAC GATCTAACTA	50
40	·	30
	ATATACAACG GCTAACCGGG CCATTCAAAA GCTCGCCCAG ATTAAATCCC	100

	TGCCGANAGC AAGTACATGG GGAGGATTAC TACTTCCTGG TTGCCAACCA	150
	CCCTTCCGGC TGCCCTTGTG TTGACTTG	178
5	(2) INFORMATION FOR SEQ ID :1192:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1192:	
	GGATCGGCGG TAATCGGTGA GCTCGGTGTC GGGTAAGGGA CCCAGTCCAT	50
20	CGCCACCAAG CGCCAGGAAT GGGCAGCATA AGGGAAGGCT AAGGAGGACT	100
20	GCAACAGGTT AGGGCCCTGG AGATTGTATT TAGCAAGGGT ACCTGCGNNG	150
	NGGGCA	156
25	(2) INFORMATION FOR SEQ ID :1193:	
	'(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1193:	
	()	
	ATTCTGAATC TTTAATGAAA ATCAGCCCAG AGCTTGTTGT AATACAGACA	50
	TAACTGCAAG AGCATGCCCA CAGCTTAGAG AGGTTGTACC AAATTTAGA	99

	(2) INFORMATION FOR SEQ ID NO: 1194	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1194:	
	NNNNTCCTTC TCCTGCGACA GACA	24
15	(2) INFORMATION FOR SEQ ID NO: 1195	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1195: TGTCTGTCGC AGGAGAAGGA	20
30	(2) INFORMATION FOR SEQ ID NO: 1196(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 26 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1196: AANNTCTCGG ACAGTGCTCC GAGAAC	26
	•	20

	(2) INFORMATION FOR SEQ ID NO: 1197	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 26 base pairs	
5	(B) TYPE: nucleic acid	7
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	,
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1197:	
	TTNNTCTCGG ACAGTGCTCC GAGAAC	26
15	(2) INFORMATION FOR SEQ ID NO: 1198	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 22 base pairs	•
•	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1198:	
	GTTCTCGGAG CACTGTCCGA GA	22
7.0	(2) INFORMATION FOR SEQ ID NO: 1199	
30	(:) CROUDNOD OURDAGEDICATOR.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
35	(D) TOPOLOGY: linear	
	(b) Totobot. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1199:	,
40	GTTCTCGGAG CACTGTCCGA GAG	23

•	(2) INFORMATION FOR SEQ ID NO: 1200	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1200:	•
	GTTCTCGGAG CACTGTCCGA GAC	23
15	(2) INFORMATION FOR SEQ ID NO: 1201	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION; SEQ ID : 1201:	22
30	(2) INFORMATION FOR SEQ ID NO: 1202 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1202:	22

	(2) INFORMATION FOR SEQ ID NO: 1203	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1203:	
	AGCTCGGCTC GAGTCTG	17
15	(2) INFORMATION FOR SEQ ID NO: 1204	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1204:	
	GCGACAGACA GCAGACTCGA GCCG	24
30	(2) INFORMATION FOR SEQ ID NO: 1205 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid	
35	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1205:	
40	GATCCGGCTC GAGT	14

(2) INFORMATION FOR SEQ ID NO: 1206

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1206:	
	CCGAGAACAC TCGAGCCG	18
15	(2) INFORMATION FOR SEQ ID NO: 1207	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1207:	
	GTAAAACGAC GGCCAGT	17
30	(2) INFORMATION FOR SEQ ID NO: 1208 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1208: CGAGGTCGAC GGTATCG	17

	(2) INFORMATION FOR SEQ ID NO: 1209	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1209:	
	CGAGGTCGAC GGTATCG	17
15	(2) INFORMATION FOR SEQ ID NO: 1210	*
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1210:	
	TACGTTCGAC AAGCTTGAAT TCGCGGCCGC TTTTTTTTTT	50
30	TTTTT	56
	(2) INFORMATION FOR SEQ ID NO: 1211	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs	
35	(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID : 1211:

WO 94/01548

611

GCCWSCGCCG A

(2) INFORMATION FOR SEQ ID NO: 1212

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

10

5

(xi) SEQUENCE DESCRIPTION: SEQ ID : 1212:

15 GGTGGCGACG ACTCCTGGAG CCCG

24

11

(2) INFORMATION FOR SEQ ID NO: 1213

(i) SEQUENCE CHARACTERISTICS:

20 (A) LENGTH: 24 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID : 1213:

TTGACACCAG ACCAACTGGT AATG

24

30

In the above SEQUENCE LISTINGS, some sequences are preferred because
they fall into the category of sequences referred to hereinbefore which
exhibit no more than 90% homology to a human sequence known per se.
The preferred sequences in these terms are all of sequences SEQ ID Nos
1 to 1193, EXCEPT FOR SEQ ID Nos:

40 85, 117, 177, 197, 223, 248, 317, 354, 355, 483, 829, 1057, 594, 595, 597, 164, 427, 420, 58, 67, 374, 373, 501, 569, 188, 550, 904, 932, 97, 89, 134, 433, 434, 357, 4, 6, 11, 336, 529, 544, 545, 549, 1037, 847,

WO 94/01548

612

870, 871, 872, 873, 875, 876, 579, 199, 524, 544, 513, 380, 276, 291, 615, 623, 627, 634, 635, 648, 652, 617, 619, 684, 697, 718, 720, 1127, 1145, 1148, 1164, 938, 587, 589, 588, 241, 243, 335, 61.

5

10

CLAIMS:

1. A nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-

5

- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a); or
- 10 (c) a sequence complementary to (a) or (b).
 - 2. A nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof.
- 3. A sequence as claimed in claim 2 and which exhibits no more than 90% homology to a human sequence known per se.
- 4. A nucleic acid fragment comprising a portion of a sequence as defined in claim 2 or claim 3 of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridize to said sequence as defined in claim 2 or claim 3.
 - 5. A fragment as claimed in claim 4, wherein said portion is at least 15 bases in length.

25

- 6. A fragment as claimed in any one of claims 1, 4 or 5 and encoding at least a portion of a biologically active polypeptide.
- 7. A nucleic acid sequence as claimed in claim 2 or claim 3 and encoding at least a portion of a biologically active polypeptide.
 - 8. A DNA construct comprising a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7, together with a control or regulatory sequence.

- 9. A construct as claimed in claim 8 which encodes a fusion protein comprising a known protein and the polypeptide encoded by said fragment or sequence.
- 40 10. A construct as claimed in claim 9, wherein the fusion protein encoded is a cleavable fusion protein having an endopeptidase recognition site positioned betw en codons c rresponding to said known

20

25

30

protein and said fragment or sequence.

- 11. The use of a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7 to produce a gene.
- 12. A DNA fragment comprising a gene obtainable by the use defined in claim 11.
- 13. An expression vector comprising a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, a DNA construct as defined in any one of claims 8 to 10, or a DNA fragment as claimed in claim 12, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.
 - 14. A vector as claimed in claim 13, wherein said vector control or regulatory sequence comprises a regulatable promoter.
 - 15. Host cells which incorporate as a heterologous part of their expressible genetic information a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, or a DNA fragment as defined in claim 12.
 - 16. A process for the production of a polypeptide comprising cultivating host cells as defined in claim 15.
 - 17. An antibody directed against a polypeptide obtainable by the performance of a process as defined in claim 16.
 - 18. An antibody as claimed in claim 17 and which is monoclonal.
- 19. A novel gene product or portion thereof encoded by a fragment as defined in any one of claims 1, 3, 5 or 6, or encoded by a sequence as defined in any one of claims 2, 3 or 7, or encoded by the gene comprised in a DNA fragment as defined in claim 12.